

LIB
00
18/11

Indian Journal of Pure & Applied Physics

Volume 18, 1980

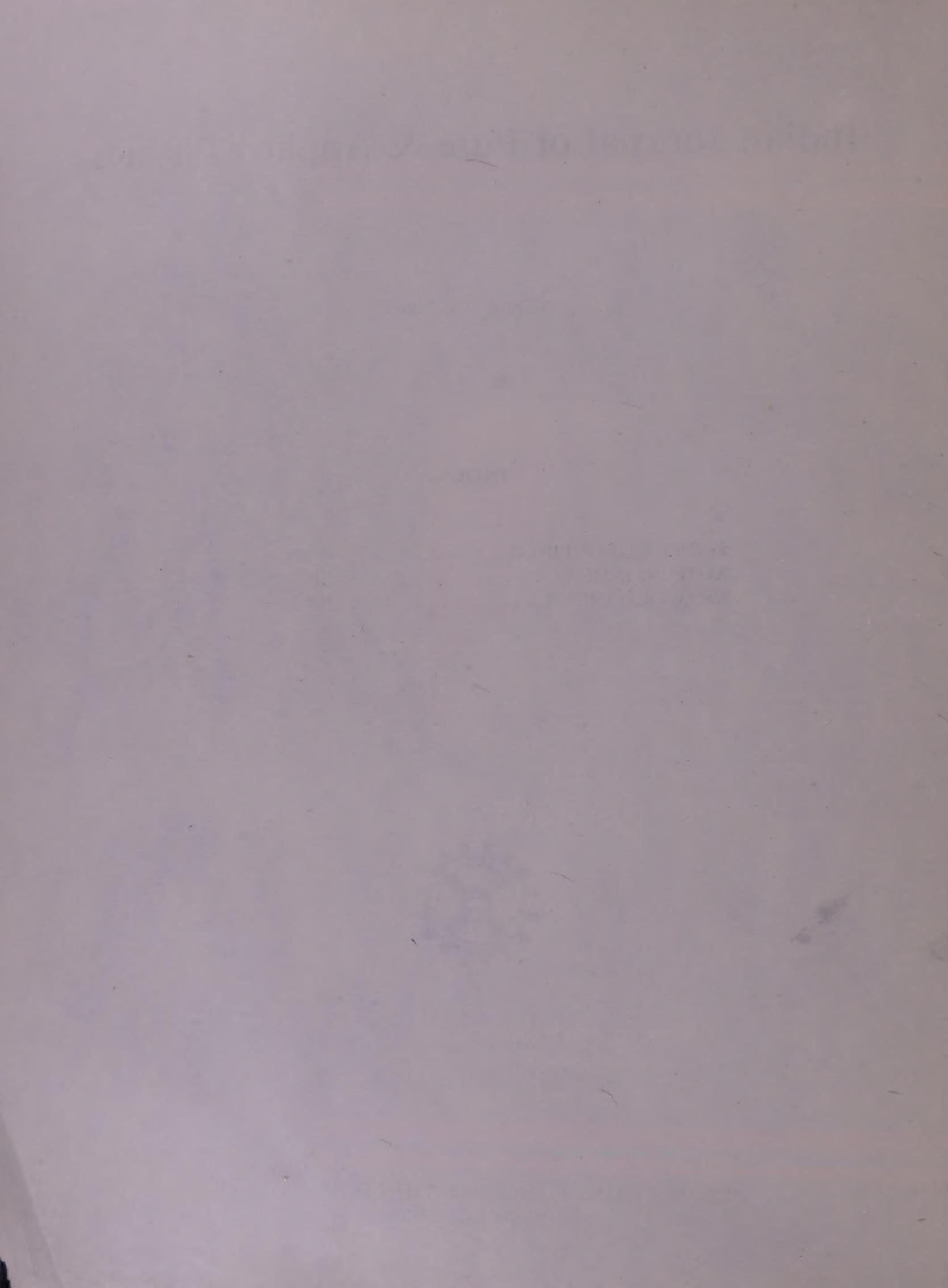


INDEX

| | |
|-------------------------|------|
| SUBJECT GROUPINGS | 1035 |
| AUTHOR INDEX | 1043 |
| KEYWORD INDEX | 1053 |



PUBLICATIONS & INFORMATION DIRECTORATE
NEW DELHI 110012



SUBJECT GROUPINGS

| | PAGE | | PAGE |
|---|------|---|------|
| CHEMICAL PHYSICS | | | |
| MOLECULAR PHYSICS | | | |
| IONIZATION AND DISSOCIATION OF PROPYLENE BY ELECTRON IMPACT SELIM EZZAT T M | 31 | ALKALI METAL HALIDE DIMERS USING ELECTRON GAS MODEL DATA KUMAR V , VERMA U P & PANDEY A N | 540 |
| EVALUATION OF CRITICAL CONSTANTS FROM THE INTERMOLECULAR FORCE CONSTANTS SHANMUGASUNDARAM V & THIYAGARAJAN P | 36 | VIBRATIONAL ANALYSIS OF MONOMERIC TRIHALIDES OF GALLIUM AND INDIUM SENGODAN V & SRINIVASACHARYA K G | 620 |
| FLEXIBILITY OF M-X BOND OF SOME TETRAHALIDES OF FOURTH GROUP METALS BY COMPLIANCE SCHEME GUPTA S L , SAXENA R C , RASTOGI V K & PANDEY A N | 54 | CENTRIFUGAL DISTORTION CONSTANTS OF CYCLOBUTANE AND CYCLOBUTANE-D8 KARUPPANNAN T A , RAMASWAMY R & VENKATESWARLU K | 623 |
| LATTICE VIBRATION MODES IN CDS KANAMORI HITOSHI , MATSUMOTO MASAO , URABE KEI & NAKAMORI NOBUYUKI | 129 | MOLECULAR CONSTANTS OF ACETYLENES:PART-I CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF GEH3COCH AND GED3COCH SABHAPATHY K , RAMASWAMY R & VENKATESWARLU K | 625 |
| EFFECT OF HIGH PRESSURES ON THE HYDROGEN BOND SYSTEMS OF SOME ALCOHOLS SRINIVASA RAO A | 132 | ON THE SYMMETRY GROUP OF NON-RIGID MOLECULE BF2COCH3 KRISHNA MURTY T S G , PRASAD L S R K & KONDALA RAO M | 713 |
| MOLECULAR CONSTANTS OF ACETYLENES:PARTII--CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF SILYLACETYLENE SABAPATHY K , RAMASWAMY R & VENKATESWARLU K | 134 | INTRAMOLECULAR FORCE FIELDS AND MEAN AMPLITUDES OF VIBRATION OF GROUP IV TETRABROMIDES GOEL R K , GUPTA S K & AGARWAL M L | 715 |
| MOLECULAR ORBITAL ENERGIES AND X-RAY K-ABSORPTION SPECTRA OF COPPER IN METAL AND ITS OXIDES SRIVASTAVA U C | 258 | MOLECULAR CONSTANTS OF SOME OCTAHEDRAL HEXAHALO AND HEXAOXY IONS GOEL R K & GUPTA S K | 718 |
| BOND POLARIZABILITY DERIVATIVES AND FORCE CONSTANTS OF SOME XY3 PYRAMIDAL TYPE MOLECULES AND IONS RASTOGI V K , VERMA U P & PANDEY A N | 302 | MOLECULAR CONSTANTS AND VIBRATIONAL AMPLITUDES OF SOME TETRAHEDRAL SYSTEMS SANYAL NITISH K , GOEL R K & SHARMA S D | 722 |
| FORCE CONSTANTS OF SOME XY4 MOLECULES BY MODIFIED REDINGTON AND ALJIBURY METHOD TRIPATHY M , MISHRA K C & MOHANTY B S | 305 | PHONON DISPERSION IN LIQUID CARBON DISULPHIDE LODHA NILIMA , SAXENA N S & BHANDARI R C | 754 |
| CALCULATION OF MULTIPLET SPLITTINGS OF A ¹ ₁ STATES OF SOME DIATOMIC ALKALINE-EARTH HALIDES BY EXTENDED HUCKEL APPROACH NANDA D P & MOHANTY B S | 324 | STUDY OF MOLECULAR REORIENTATION IN PHENOTHIAZINE BY PMR SIRCAR RATNA , MISHRA S C & GUPTA R C | 757 |
| SEMI-EMPIRICAL PI-ELECTRON CALCULATIONS ON SOME MONO SUBSTITUTED ACETOPHENONES GUPTA DEVINDER & JAISWAL R M P | 327 | CALCULATION OF IONIC RADII OF ALKALI HALIDE CRYSTALS THROUGH SCREENED COULOMB POTENTIAL PURI USHA | 810 |
| PI*-PI SYSTEMS IN THE QUARTZ ULTRAVIOLET ELECTRONIC ABSORPTION SPECTRA OF SOME DI- AND TRISUBSTITUTED ACETOPHENONES GUPTA DEVINDER & JAISWAL R M P | 332 | RKRV POTENTIAL ENERGY CURVE AND DISSOCIATION ENERGY OF CAO SREEDHARA MURTHY N , PRAHLAD U D , RAMAKRISHNA RAO T V & THIMMA NAIDU G | 818 |
| INFLUENCE OF VIBRATION ROTATION INTERACTION ON FRANCK-CONDON FACTORS TRIPATHI R & RAI S B | 372 | MOLECULAR DYNAMICS OF SOME OCTAHEDRAL HEXAHALIDE ANIONS MOHAN S & RAVI KUMAR K G | 857 |
| INTERPRETATION OF THE SPECTRA OF SUBSTITUTED BORAZINES BY UREY-BRADLEY FORCE FIELD SUBHEDAR M K & THYAGARAJAN G | 396 | CENTRIFUGAL DISTORTION CONSTANTS OF SOME PHOSPHORUS (V) CHLOROFLUORIDES RAMASWAMI R , SABAPATHY K & VENKATESWARLU K | 912 |
| CHARGE TRANSFER INTERACTION OF SOME BIOMOLECULES WITH CHLORANIL SAHAI R & SINGH V | 504 | TEMPERATURE VARIATION OF NQR FREQUENCIES IN 2,6-DICHLOROBENZAMIDE RAMANAMURTI D V , VENKATACHARYULU P & PREMASWARUP D | 922 |
| CATIONIC EFFECT ON THE INTRAMOLECULAR FORCES OF B(VI)O ₆ OCTAHEDRA IN ORDERED CUBIC PEROVSKITES A ₂ B(II)B(VI)O ₆ PANDEY A N , VERMA U P & CHOPRA J R | 510 | ON THE ISOTOPIC INVARIANTS OF POLYATOMIC MOLECULES JAGANNATHAN R , CHINNAPPAN V A & SAVARI RAJ G A | 964 |
| MOLECULAR CONSTANTS OF SOME HEXAHALOANIONS OF GROUP IV A AND GROUP V A BELONGING TO OH POINT GROUP SARKAR P C & SINGH G C. | 516 | MAGNETO AND SPECTRAL STUDIES ON RARE EARTH CHELATES OF BETA-BENZIDINYL 2:4-DIHYDROXY PROPIOPHENONE RASTOGI V K , TYAGI B.S , PANDEY A N & SAXENA R C | 973 |
| FORCE FIELD AND VIBRATIONAL AMPLITUDES OF | | STABILITY OF INTRAMOLECULAR HYDROGEN BOND OF 8-HYDROXY QUINOLINE IN DIFFERENT SOLVENTS: IR SPECTROSCOPIC STUDY | 1010 |
| | | | 1035 |

| PAGE | PAGE | | |
|---|------|--|---------------------------|
| SURYANARAYANA I & SAIKIA S K ELASTIC CONSTANTS OF PHLOROGLUCINAL DIHYDRATE BY X-RAY DIFFUSE SCATTERING SURESH CHANDRA | 1012 | TOLUIDINE SYSTEM SINGH NARSINGH BAHADUR ESTIMATION OF LIMITING SOLID VOLUME OF POLAR SUBSTANCES: AN ANALYTICAL METHOD SHARMA B K TEMPERATURE DEPENDENCE OF ROTATIONAL RELAXATION IN O- AND N- HYDROGEN PRABHURAM & SAKSENA M P INFLUENCE OF DIELECTRIC CONSTANT ON CATIONIC MOBILITIES OF ELECTROLYTIC SOLUTION IN RELATION TO EIGEN MECHANISM BRAHMAJI RAO V, SATYANARAYANA RAO T & CHOWDARY BABU N | 913 915 970 1021 |
| PHYSICO-CHEMICAL PROPERTIES | | | |
| EXCESS THERMODYNAMIC PROPERTIES AND INTERACTIONS IN BENZENE + TETRAHYDROFURAN AND METHYL ETHYL KETONE + BUTANOL SOLUTIONS TIWARI V & PANDEY J D | 51 | DIELECTRICS AND MICROWAVES | |
| MEASUREMENTS OF SELF-DIFFUSION COEFFICIENTS IN HG AND GA BY A RADIOACTIVE TRACER TECHNIQUE | 87 | LIQUID STRUCTURE OF TERT-BUTYL ALCOHOL IN NONPOLAR SOLVENTS FROM DIELECTRIC STUDIES DWIVEDI D C & SRIVASTAVA S L | 40 |
| BASU A, CHANDRAR S N & GHOSE A M AVERAGED POTENTIAL FOR COMPLEX POLAR FLUIDS OM SINGH & GAINDAR JAWAHAR LAL | 91 | PREDICTION OF DIPOLE MOMENTS OF POLAR MOLECULES FROM THE RELATION BETWEEN TAU(SOLUTE) AND ETA(SOLVENT) DATTA SHEKHAR KUMAR | 58 |
| FORCE FIELD STUDIES OF ALPHA, BETA- UNSATURATED AMIDES I: N,N-DIMETHYL ACRYLAMIDE | 94 | A HEURISTIC FORMULA FOR THE DIELECTRIC LOADING FACTOR OF A HELIX SUPPORTED BY DIELECTRIC CIRCULAR RODS | 63 |
| RAMANA RAO G & VENKATA RAMIAH K MOELWYN-HUGHES PARAMETER OF PURE LIQUIDS AND LIQUID METAL ALLOYS | 209 | BASU B N & JOSHI S N DIELECTRIC RELAXATION TIME AND DIPOLE MOMENT OF SOME SUBSTITUTED ANILINES IN BENZENE SOLUTIONS | 110 |
| THAKUR K P & JHA LAKSHMI KANT A NEW APPROXIMATION UNDER THE PERTURBATION THEORY FOR MICROWAVE LINE-WIDTH CALCULATION AND THE QUADRUPOLE MOMENT OF BENZENE | 248 | KHAMESHARA S M & SISODIA M L DIELECTRIC BEHAVIOUR OF FERROELECTRIC AMMONIUM BISULPHATE POWDERS | 135 |
| JOHRI G K & RISHISHWAR R P MOLECULAR INTERACTION AND THERMODYNAMIC PROPERTIES OF TERNARY LIQUID MIXTURES SINGH S, PRASAD N, KUSHWAHA R M SIVANARAYANA K & PRAKASH S | 254 | SAMBASIVA RAO K & BHANUMATHI A MECHANISM RESPONSIBLE FOR THE OBSERVED DIELECTRIC RELAXATIONS IN POLYVINYLDENE FLUORIDE | 183 |
| RELATIONSHIP BETWEEN POTENTIAL ENERGY CONSTANTS AND HEAT OF ATOMIZATION | 392 | MEHENDRU P C, CHAND S & JAIN K MICROWAVE ABSORBING MATERIAL USING RUBBER AND CARBON | 216 |
| THYAGARAJAN G & SUBHEDAR M K SURFACE TENSION OF HARD SPHERE LIQUIDS WITH ATTRACTIVE INTERACTIONS AND ESTIMATION OF RAO'S ACOUSTICAL PARAMETER SHARMA B K | 457 | ZACHARIAH E J, VASUDEVAN K, SREENIVAS G, MOHANAN P, PRAVINKUMAR P A & NAIR K G | 374 |
| TRANSPORT PROPERTIES OF NEON, KRYPTON AND XENON ACCORDING TO L-J (12-6) POTENTIAL JAIN P C | 459 | DIELECTRIC DISPERSION IN CERTAIN BINARY MIXTURES AND SOLUTIONS RAJYAM B S, RAMA SASTRY C V & MURTY C R K | 401 |
| THERMODYNAMICS OF MANGANESE-BEARING BINARY SUBSTITUTIONAL SOLUTIONS AGRAWAL R D, MATHUR V N S & KAPOOR M L | 494 | DIELECTRIC PROPERTIES OF INDIAN CLAY MINERALS: BENTONITE AND PYROPHILLITE MAHAN M K, JHA B L & CHETAL A R | 404 |
| ISOHERMAL COMPRESSIBILITY BEHAVIOUR OF AQUEOUS SOLUTIONS OF TERT-BUTYL ALCOHOL AT 25 DEGREE C | 499 | DIELECTRIC RELAXATION IN METHYL MERCAPTOACETATE AND METHYL CYANOACETATE IN BENZENE SOLUTION SENGUPTA K | 535 |
| PATIL K J & RAUT D N FREQUENCY MOMENTS AND VISCOSITIES OF LIQUID RUBIDIUM | 538 | ON SARMA AND RAO'S RELATION FOR TAU FOR BINARY MIXTURES OF POLAR LIQUIDS SWAIN B B | 583 |
| SAXENA N S & LODHA NILIMA CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF C3H6, C3D6 AND C3F6 | 626 | DIELECTRIC STUDIES ON THE LIQUID AND SOLID PHASES OF CHLOROBENZENE CIS-DECALIN MIXTURES ABHAI MANSINGH, AGARWAL C B & RAMADHAR SINGH | 588 |
| KARUPPANNAN T A, RAMASWAMY R & VENKATESWARLU K RESONANCE ENERGIES OF NON-ALTERNANT HYDROCARBONS | 665 | RELAXATION TIME AND ACTIVATION ENERGY FOR VISCOSITY FROM RADIOFREQUENCY CONDUCTIVITY MEASUREMENTS | 629 |
| TIWARI M M, UPADHYAY R K & SRIVASTAVA A K | 815 | GHOSH A K & SEN S N MICROWAVE CONDUCTIVITY AND RELAXATION TIME OF POLAR LIQUIDS | 669 |
| THERMAL CONDUCTIVITIES OF BINARY GAS MIXTURES PANDEY J D & PRAJAPATI S R | 816 | GHOSH S K, GHOSH A K & ACHARYYA S EFFECT OF ION DIFFUSION FROM DOUBLE LAYER CAPACITORS ON RF CONDUCTION IN POLAR LIQUIDS | 669 |
| ESTIMATION OF THERMAL DIFFUSION FACTOR OF N2-CO2 GAS MIXTURE FROM THERMAL DIFFUSION COLUMN DATA | 864 | GHOSH R & CHAUDHURY IRA | |
| DATTA S K & ACHARYYA S ISENTROPIC COMPRESSIBILITY BEHAVIOUR OF AMINES IN DILUTE AQUEOUS SOLUTIONS, KAULGUD M V, SHRIVASTAVA ANJALI & AWODE M R VISCOSITY BEHAVIOUR OF DIPHENYLAMINE-P- | | | |

SUBJECT GROUPINGS

PAGE

| | PAGE | | |
|---|------|--|------|
| DIELECTRIC RELAXATION STUDY OF INTERMOLECULAR ASSOCIATION THROUGH HYDROGEN BONDING OF P-HALOPHENOLS IN NON-POLAR SOLVENTS MISRA C K , SAXENA M C & SAXENA A K | 784 | RESISTANCE POTENTIAL DIVIDER BEG S | 687 |
| DIELECTRIC STUDIES ON CARBOXYLIC ACIDS: PART III--DIPOLAR THERMODYNAMIC EXCESS FUNCTIONS OF ACETIC, PROPIONIC AND BUTYRIC ACIDS IN NON-POLAR SOLVENTS SABESAN R , VARADARAJAN R & SARGURUMOORTHY M | 890 | AXIAL CYLINDRICAL SURFACE WAVE TRANSMISSION ACROSS A BEND SINHA G P & SHARMA K P | 788 |
| RADIO FREQUENCY CONDUCTIVITY OF OPALESCENT BINARY LIQUID MIXTURES SEN S N & GHOSH A K | 977 | NEUTRON IRRADIATION EFFECTS ON MAGNETOCURRENT IN SEMICONDUCTOR DIODES AGRAWAL SHANKER LAL & RAMA SWAMI | 807 |
| TEMPERATURE AND FREQUENCY DEPENDENCE OF DIELECTRIC PROPERTIES OF COSIF6.6H2O AROUND ITS STRUCTURAL PHASE TRANSITION TEMPERATURE DUTTA ROY S K , MITRA S S & GHORAI S K | 981 | EVALUATION OF CRITICAL CURRENTS AND VOLTAGES IN THE SINGLE INJECTION CURRENT IN AN INSULATOR SHARMA Y K | 812 |
| AFTER-EFFECT OF HEAT AND MAGNETIC FIELD ON THE DIELECTRIC PERMITTIVITY OF SULPHUR SHRIVASTAVA VIJAY K , KHARE M L & BHATNAGAR C S | 1002 | A LOW NOISE HIGH GAIN AMPLIFIER FOR ACOUSTIC EMISSION SAMPATH KUMAR J , MALLIKARJUN RAO S P & SURYANARAYANA M | 904 |
| RELATIVE PERMITTIVITY OF THE ACETATES OF POTASSIUM, LITHIUM, RUBIDIUM AND CESIUM HATIBARUA J | 1019 | ELECTRONIC SIMULATION OF ACOUSTIC EMISSION CHADDA SANJEEV & MALLIKARJUN RAO S P | 1031 |
| GENERAL PHYSICS | | | |
| ELECTRONICS | | | |
| FIELD ANALYSIS OF A PRACTICAL HELICAL SLOW-WAVE STRUCTURE FOR TWTS BASU B N | 64 | DIELECTRIC TRANSIENT RESPONSE OF SOME BIOMOLECULES FOLLOWING ULTRAVIOLET RADIATION SUPEKAR S B & BANDOPADHYAYA T K | 139 |
| SIMULATED INDUCTANCE USING OPERATIONAL AMPLIFIERS SHARMA R S & SHAH N A | 121 | STABILITY MEASUREMENTS IN TIME DOMAIN USING DUAL MIXER TIME DIFFERENCE SYSTEM SAXENA G M & MATHUR B S | 220 |
| CIRCUIT PARAMETERS FOR A COMPLEX HELICAL SWS COMBINING RESULTS FOR SIMPLER CONFIGURATIONS SINHA A K & BASU B N | 141 | MEASUREMENT AND ANALYSIS OF SOLAR RADIATION AND ILLUMINATION FOR CLEAR SKY CONDITIONS CHANDRA M | 413 |
| AUTOMATIC TRIGGER PULSE LOGIC FOR THE PULSE PROGRAMMER FOR USE IN PULSED NMR SHENOY R K , RAMAKRISHNA J & SRINIVASAN R | 145 | DEVELOPMENT OF A HORIZONTAL MODEL OF CALCULABLE CROSS-CAPACITOR DHAR R N , DAHAKE S L & CHANDRA K | 524 |
| REALIZATION OF ACTIVE BANDPASS FILTERS SHARMA R S & DULLU U K | 285 | I-V CHARACTERISTICS OF SEMICONDUCTOR- INSULATOR-SEMICONDUCTOR SOLAR CELLS SEN K , JAIN B K , BHATNAGAR V K & SRIVASTAVA V K | 532 |
| A FUNCTION GENERATOR USING INTEGRATED CIRCUITS FOR MOSSBAUER EFFECT WORK PUSHPALATHA B R & PUTTASWAMY N G | 298 | RELATIVISTIC CORRECTION FOR THE NPL (INDIA)- PTB (WEST GERMANY) CLOCK SYNCHRONIZATION EXPERIMENTS MATHUR B S & SAXENA G M | 601 |
| INJECTION SYNCHRONIZATION IN THE FACE OF HEAVY INTERFERENCE RAY S K , PRAMANIK K & KARMAKAR S. | 354 | ACCURATE MEASUREMENT OF TANGENTIAL VIBRATIONS OF QUARTZ CRYSTALS BAHADUR HARISH & PARSHAD R | 905 |
| ELECTROCHEMICALLY DEPOSITED SCHOTTKY CONTACTS ON N-EPIXTIAL SILICON SINGH B K , MITRA R N & DAW A N | 368 | HEAT TRANSMISSION THROUGH JUTE-FIBRE PACKINGS AT LOW TEMPERATURE DAS S K & CHAKRAVARTY S C | 910 |
| ANNEALING EFFECTS ON DC CURRENT GAIN (β) OF SILICON PLANAR TRANSISTORS SOOD S C , JASUJA K L & VENKATARAMANI A | 377 | PREDICTION OF EFFECTIVE THERMAL CONDUCTIVITY OF TWO-PHASE POROUS MATERIALS USING RESISTOR MODEL VEERENDRA KUMAR & CHAUDHARY D R | 984 |
| ACQUISITION BEHAVIOUR OF PHASE LOCKED LOOPS IN THE FACE OF RAYLEIGH AND LOGNORMAL FADING SIGNALS SARKAR B C , BHATTACHARYA A K , RAY S K & BISWAS B N | 441 | INSTRUMENTATION | |
| EFFECT OF MAGNETIC FIELD ON THE CURRENT GAIN OF JUNCTION TRANSISTORS MANOHARA MURTHY N , MALLIKARJUNA REDDY P & SUBRAHMANYAM S V | 455 | SENSOR DESIGN FOR AN ELECTROMAGNETIC FLOW-METER DESA S E & DESA E | 351 |
| A BANDPASS FILTER USING SINGLE OPERATIONAL AMPLIFIER POLE SHARMA R S & DULLU U K | 636 | A COUNT RATE INTEGRATOR FOR USE WITH X-RAY SPECTROSCOPY WORK BANERJEE M & BHATNAGAR K G | 798 |
| INVESTIGATIONS ON THE SECOND HARMONIC GENERATION AT BREAKDOWN IN P-N JUNCTIONS GOVIL ANIL K , SHARWAN KUMAR & PARSHAD R | 682 | PARALLEL PLATE ELECTRON MULTIPLIER USING 3N02-AL203 MAHAJAN P W & BHORASKAR S V | 907 |
| ELECTRICAL CHARACTERISTICS OF 50 K V | | PULSE HEIGHT ANALYZER FOR HIGH COUNTING RATE IN MOSSBAUER WORK KRISHNAMURTY ANJALI , RAMESH CHANDRA & LOKANATHAN S | 999 |
| | | VARIABLE FREQUENCY INTERFERENCE FILTER | 1004 |
| | | | 1037 |

ASHOK J & VASANTHA D
AN ASSEMBLY FOR MEASURING THE DC
CONDUCTIVITY OF ORGANIC SOLIDS
DUTT S C

PAGE

- GENERALIZED ELECTROMAGNETIC FIELDS FOR NON-ZERO MASS SYSTEM
JOSHI D C & RAJPUT B S
SLATER-CONDON AND SPIN-ORBIT PARAMETERS FOR
TMC(3+) IN THULIUM SULPHATE, THULIUM ETHYL
SULPHATE AND ZINC SULPHIDE
LAKSHMAN S V J & JAYA SANKAR C K

988

1015

MASERS, LASERS AND HOLOGRAPHY

DISPERSION EFFECTS IN THE FM MODE-LOCKED
LASER

342

JAGANNATHA REDDY K P
LASER POWER FLUCTUATIONS DUE TO STRIATIONS
IN A HE-NE LASER OPERATING AT 6328
ANGSTROMS
DANDAWATE V D
SIMPLE METHODS FOR GENERATION OF HOLOGRAPHIC
LENS ARRAY
ANANDA RAO S

107

130

180

289

461

544

548

593

597

678

728

778

801

805

884

NUCLEAR PHYSICS

MATHEMATICAL AND THEORETICAL PHYSICS

MASSIVE SPHERES: SOME GENERAL CONSIDERATIONS
AND APPLICATIONS

171

DURGAPAL M C & PANDE A K
EFFECT OF POLARIZED VELOCITY DISTRIBUTION OF
ELECTRONS ON DOUBLE IONIZATION OF HE BY
PROTON IMPACT

176

VIR SINGH
DIPOLE AND QUADRUPOLE POLARIZABILITIES AND
SHIELDING FACTORS OF LI USING HYDRODYNAMIC
ANALOGY

218

TANDON V K , SURI S K & SHUKLA G C
APPLICATIONS OF THE COULOMB-GLAUBER-OCHKUR
APPROXIMATION TO N=2 AND N=3 ELECTRON
IMPACT EXCITATION OF HE(+)

265

KWONG R & WILLIAMSON W (JR)
CLOSE-COUPLING APPROACH TO LOW ENERGY
ELECTRON SCATTERING BY OXYGEN MOLECULE

408

PANDE A K , TRIPATHI D N & SINGH R S
APPLICATION OF GLAUBER APPROXIMATION TO
FESHBACH-TYPE RESONANCE SCATTERING

615

JOSHIPURA K N & DESAI H S
CALCULATION OF THERMODYNAMIC FUNCTIONS AND
FLUCTUATIONS IN THE GROUND-STATE PARTICLE
NUMBER FOR INTERACTING BOSONS

760

KHANNA K M & MEHROTRA S N
HYDRODYNAMICS OF PERSISTENT MASS CURRENTS

767

KHANNA K M , PHUKAN A M & SARMAH N C
EFFECTIVE POTENTIAL FOR THE $O(N)$ SYMMETRIC
PHI-6 MODEL

771

MURUGESU S & OH C H
ENERGY CALCULATION OF ANHARMONIC OSCILLATOR
BY DALGARNO SUM RULE

821

GHOSH ADARSH & KHUBCHANDANI P G
QUANTUM CORRECTIONS TO THERMODYNAMIC
PROPERTIES OF A MIXTURE OF HARD SPHERE AND
SQUARE WELL MOLECULES

868

SINGH N & SINHA S K
A COMPOSITE FLUID SPHERE WITH TWO DENSITY
DISTRIBUTIONS IN GENERAL RELATIVITY

874

PATRA P & ROY T
STRONG COUPLING HARMONIC OSCILLATOR
POTENTIAL WITH WEAKLY COUPLED LINEAR AND
CUBIC ANHARMONICITIES

878

CHOUBEY JYOTI & SHARMA L K
GREEN'S FUNCTION CALCULATIONS ON THE
PHOTOELECTRON SPECTRA OF SOME SMALL
HETERODIMERIC PI-ELECTRON SYSTEMS

917

GOPAL R & MISHRA P C
REDUCTION AND SECOND QUANTIZATION OF

OPTICS

- EFFECT OF FIELD AND DETECTOR TEMPERATURES ON
PHOTON COUNT STATISTICS
DUDEJA J P

348

PLASMA PHYSICS

- STUDY OF PARAMETERS OF ARGON PLASMA BY
MICROWAVE SCANNING TECHNIQUE

271

SUBJECT GROUPINGS

PAGE

| | PAGE | | |
|---|------|---|------|
| SARKAR G K , MAJUMDAR D & SARKAR D C REFLECTION AND TRANSMISSION OF ION ACOUSTIC SOLITON AT A PLASMA INTERFACE | 673 | RAVINDRAN NAIR K PRELIMINARY SINGLE CRYSTAL X-RAY STUDY OF N-METHYL CROTANANINIUM IODIDE | 62 |
| SHARMA S R & TIWARI R S SPARKING POTENTIALS IN LONGITUDINAL MAGNETIC FIELDS | 725 | GOSWAMI K N , SHARMA S D & SURI O P STUDY OF BLISTERS FORMED DUE TO HELIUM ION BOMBARDMENT ON STAINLESS STEEL | 74 |
| NATARAJAN A & SELVARAJAN V AN INVESTIGATION OF THE ELECTRON CYCLOTRON RESONANCE LINE SHAPE IN TRANSIENT AFTERGLOW PLASMAS OF NEON AND ARGON | 993 | PANDE B M , ANAND M S & AGARWALA R P ORIGIN OF GROWTH HILLOCKS ON THE (001) SURFACE OF LEAD MOLYBDATE CRYSTALS | 78 |
| KABILAN A P MOTIONAL IMPEDANCE OF A RIGID, CONDUCTING, DIAMAGNETIC PROLATE PLASMA SPHEROID | 1028 | SREEDHARAN PILLAI K & ITTYACHEN M A LOW ANGLE X-RAY DIFFRACTION STUDY OF LIQUID CRYSTAL: CHOLESTERYL METHYL CARBONATE | 127 |
| MARIHAL B N & JYOTI B G | | SHASHIDHARA PRASAD J & SIDDARAMA GOWDA L MICROTOPOGRAPHICAL STUDIES OF SECOND ORDER PRISM FACES OF SYNTHETIC QUARTZ CRYSTALS | 162 |
| RESONANCE PHENOMENA | | | |
| EPR AND OPTICAL ABSORPTION STUDIES ON THE COORDINATION COMPOUNDS OF COPPER(II) WITH (3,5-DIMETHYL ISOXAZOLE) AND (3-METHYL, 5- PHENYL ISOXAZOLE) LIGANDS | 212 | JOSHI M S & SARAF K B CRYSTAL GROWTH OF TRANSITION METAL OXIDES FROM POTASSIUM PYROSULPHATE FLUX | 304 |
| PONTICELLI G , PELIZZI G , SASTRY BA , ASADULLA S MD & CHARY E S EPR STUDY OF MOLECULAR ORDER IN P-N-OCTYLOXY BENZYLIDENE-P-TOLUIDINE USING VAAC PROBE | 262 | RAVINDRAN NAIR K & NARAYANAN KUTTY T R VARIATION OF HARDNESS WITH LOAD FOR QUENCHED KBR SINGLE CRYSTALS | 365 |
| RAO A S N , MURTHY C R K , SAHU KUSUM & REDDY T RS | | CHAURE R S & SHRIVASTAVA R N AN ALTERNATIVE APPROACH FOR THE DESCRIPTION OF PHYSICAL PROPERTIES IN FERROIC SPECIES | 449 |
| EPR STUDIES ON N,N'-ETHYLENEBIS (SALICYLALDIMINATO) COPPER(II)-THIOUREA AND N,N'-O-PHENYLENEBIS (SALICYLALDIMINATO) COPPER(II)-THIOUREA | 337 | GOPALAKRISHNA MURTI P & UMA DEVI S KINETICS OF GROWTH AND DISSOLUTION OF POTASSIUM DIHYDROGEN PHOSPHATE CRYSTALS IN AQUEOUS SOLUTIONS | 479 |
| SASTRY B A , ASADULLAH S MD , DEB ANITA & PELIZZI C ESTIMATION OF GROUND STATE WAVEFUNCTIONS AND ESR PARAMETERS OF CU(2+) ION | 541 | JOSHI M S & ANTHONY A V ONE-SPIN CROSS-RELAXATION IN DILUTE NICKEL FLUOSILICATE | 606 |
| MISRA B N , FAUDAR & RAMESH BABU SUBSTITUENT GROUP EFFECTS ON NQR FREQUENCY OF BR IN CERTAIN BROMOMETHANE DERIVATIVES | 631 | SIKRI A K & MARCHAL M L EFFECT OF ACID CONCENTRATION AND TEMPERATURE ON THE SELECTIVE ETCH RATE AND ETCH PIT | 642 |
| NARASIMHA RAO C V L & PREMASWARUP D TEMPERATURE DEPENDENCE OF CL-35 NQR IN SOME CHLORONITROTOLUENES | 702 | MORPHOLOGY OF (111) FACES OF CAF2 CRYSTALS | 699 |
| UCHIL J , SETTY D L R , INDUMATHY A & RAMAKRISHNA J SECOND MOMENT OF SOLID HIPPURIC ACID BY WIDE-LINE NMR | 731 | PATEL A R & KOTAK M D CREATION AND ELIMINATION OF DISLOCATIONS IN FLOAT ZONE SILICON CRYSTALS | 751 |
| JAGANNATHAN N R , CANAPATHY S & SRINIVASAN R ERRORS IN LINE WIDTH ANALYSIS DUE TO UNRESOLVED HYPERFINE STRUCTURES | 823 | BAGAI R K , BORLE W N , BAL M & NANGIA O P MICROTOPOGRAPHICAL STUDIES OF N-FACES OF NATURAL ANALCITE CRYSTALS | 899 |
| PRABHANANDA D S BROAD LINE PROTON MAGNETIC RESONANCE INVESTIGATIONS ON SOLID SEMI-CARBAZIDE HYDROCHLORIDE | 997 | JOSHI M S , MOHAN RAO P & ANTHONY A V ELECTRON MICROSCOPY OF TAS2 SINGLE CRYSTALS USING WEAK BEAM TECHNIQUE | 1005 |
| KHARE PUSHPA , MISHRA S S ASHUTOSH , PURNIMA BHARTI & GUPTA R C PMR STUDY OF INTRAMOLECULAR MOTION IN SOLID 2,4-DINITROPHENYL HYDRAZINE | 1017 | AGARWAL M K , PATEL J V & PATEL T C 90 DEGREE GROWTH TWINS IN FLOAT-ZONE SILICON CRYSTALS | 1008 |
| ROY ALPANA & GUPTA R C | | BAGAI R K & BORLE W N STUDY OF SURFACE DISTORTION AROUND DYNAMIC IMPACTS ON CLEAVAGES OF SODIUM BROMIDE SINGLE CRYSTALS | 1039 |
| SOLID STATE PHYSICS | | | |
| CRYSTALS | | ANSARI M H & DATT S C MAGNETIC AND ELECTRICAL PROPERTIES | |
| CRYSTAL GROWTH FROM BINARY IMMISCIBLE LIQUID SYSTEMS | 60 | THERMAL CURRENTS IN MAGNETICALLY POLARIZED SILASTIC TUBULAR ELECTRETS | 20 |
| | | SRIVASTAVA RUDRA KANT , KHARE M L , QURESHI M S & BHATNAGAR C S CHARGE CHARACTERISTICS AND DIELECTRIC BEHAVIOUR OF PVF2 MAGNETOELECTRETS AT AUDIO AND RADIO FREQUENCY | 24 |
| | | QUAMARA J K , KHARE M L & BHATNAGAR C S NICKEL OXIDE ELECTRODE FOR PHOTOLYSIS | 28 |
| | | SUNDER SINGH V P , WARNEKAR P P & BHAGAWAT G K OPTICAL STUDY OF MAGNETIC POLARIZATION IN POLYPROPYLENE | 167 |
| | | ASGHAR HUSAIN S & BHATNAGAR C S ELECTRICAL PROPERTIES OF SINTERED SELENIUM POWDER COMPACTS | 242 |

| PAGE | | | |
|--|-----|--|-----|
| IBRAHIM M M ELECTRICAL CONDUCTIVITY AND DIELECTRIC CONSTANT OF SEMICONDUCTING GLASSES: AS-GE- TE AND SE-GE-TE ALLOY SYSTEMS KUMAR A , LAKSHMINARAYAN K N & SRIVASTAVA K K | 318 | STATIC AND IMPULSE PHOTOCONDUCTIVITY IN BI ₁₂ GeO ₂₀ PRAKASH S G , MAMADOV A M , LEBEDEVA N N & MARDUXAEB A R | 834 |
| ELECTRICAL CONDUCTION AND ISOTHERMAL DIELECTRIC RELAXATION IN PERSPEX VARIYAR MALINI , KHARE M L & BHATNAGAR C S | 387 | TEMPERATURE DEPENDENCE OF MAGNETIC SUSCEPTIBILITY OF CASO ₄ : DY PHOSPHORS MULLA M R & PAWAR S H | 936 |
| ELECTRICAL CONDUCTIVITY AND THERMOELECTRIC POWER IN AS ₂ S ₃ GLASSES DATTA M , BANERJEE P N , BHATTACHARYA D L , PRASAD S S & SRIVASTAVA K P | 568 | AN EMPIRICAL GENERALIZED RELATION ON DECAY OF CAS PHOSPHORS MEHTA A S , TIWARI M C & MACHWE V G | 940 |
| ANALYSIS OF THE DIAMAGNETIC ANISOTROPY OF THERMO- AND MAGNETO-ELECTRET STATES MAJI M L , SAHA M & CHATTERJEE S D | 611 | PHYSICS OF SOLIDS | |
| MAGNETIC PROPERTIES OF SI-DOPED YIG SINGLE CRYSTALS PANDEY R K | 639 | LAYER DISORDERS IN CYLINDRICAL CRYSTALLITES AND THEIR EFFECTS ON DIFFRACTION INTENSITIES | 56 |
| EFFECT OF PHYSICAL AGING ON ELECTRICAL PROPERTIES OF POLYSTYRENE RANJIT SINGH & DATT S C | 839 | BHATTACHERJEE S , DE A K & RAY B K THERMAL EXPANSION OF V ₃ Si AT ELEVATED TEMPERATURES | 57 |
| DIELECTRIC INVESTIGATIONS IN MAGNETO- ELECTRET STATE OF POLYPROPYLENE ASGHAR HUSSAIN S , SRIVASTAVA R K & BHATNAGAR C S | 845 | RAO B K & SIRDHESMUKH D B EVALUATION OF GRUNEISEN CONSTANT OF KCl-KBr MIXED SYSTEM | 58 |
| DIELECTRIC LOSS FACTOR IN MAGNETICALLY POLARIZED SILICONE RUBBER TUBULAR ELECTRETS BY TSDC SHRIVASTAVA RUDRAKANT , QURESHI M S , KHARE M L & BHATNAGAR C S | 923 | SUBRAMANIAM BRINDA DIFFRACTION INTENSITIES FROM A CLUSTER OF CURVED CRYSTALLITES WITH LAYER SHIFT | 67 |
| ELECTRET PROPERTIES OF ELECTRICALLY CHARGED SILICONE RUBBER SRIVASTAVA RUDRA KANT , QURESHI M S & BHATNAGAR C S | 957 | DE A K , RAY B K & BHATTACHERJEE S A COMPUTER STUDY OF THE COMPOSITION OF SOME AMORPHOUS ALLOYS: METALLIC GLASSES | 71 |
| OPTICAL PROPERTIES | | | |
| X-RAY DIFFRACTION AND FLUORESCENCE SPECTRAL STUDIES ON (CAS,BAS): CU PHOSPHORS MISHRA U K , MOR S L & RANADE J D | 6 | BASU RAHUL HIGH TEMPERATURE PHASE TRANSITION IN V ₃ O ₅ VASANTHACHARYA N Y & VASUDEVAN S | 147 |
| LIGHT ABSORPTION AND PHOTOEMISSION OF AG-O- CS PHOTOCATHODE VERMA R L | 138 | EFFECT OF PH ON THE LIESEGANG RING FORMATION OF LEAD CARBONATE CRYSTALS | 150 |
| ISOHERMAL DECAY OF CAO:EU:TB PHOSPHORS RAMAN Y , SIVARAMAN S & RANADE J D | 207 | MOHANAN PILLAI K , ITTYACHEN M A & VAIDYAN V K | 158 |
| LUMINESCENCE OF ZNO PHOSPHOR IN GREEN AND RED REGIONS SONI R S , DIWAN P S & SIVARAMAN S | 292 | COMPUTER SIMULATION OF TERNARY MISCELLANEOUS GAP IN THE TERNARY ALLOY Pd(77.5)Cu(6)Si(16.5) | 204 |
| APPLICATION OF HAGEMARK'S THEORY TO MULTICOMPONENT SYSTEMS ZNTE: Li, O AND NA- IMPLANTED CDS EKBOYE P D & ZOPE J K | 363 | BASU RAHUL TRANSPORT PROPERTIES OF MONOCLINIC RARE- EARTH SESQUIOXIDES | 214 |
| X-RAY INDUCED THERMOLUMINESCENCE IN CASO ₄ :Sm PHOSPHORS SABNIS S G & PAWAR S H | 562 | VERMA B K , VIRENDRA PRATAP & LAL H B ON THE DEBYE CHARACTERISTIC TEMPERATURE OF SOME CRYSTALS WITH NaCl-TYPE STRUCTURE | 227 |
| MECHANOLUMINESCENCE SPECTRA OF SODIUM BROMATE AND SODIUM CHLORATE CRYSTALS CHANDRA BP & VERMA R D | 608 | BASU DEBASRI & VERMA J K D STUDIES ON THE STABILITY AND STRENGTH OF FCC ALUMINIUM USING MORSE POTENTIAL | 236 |
| I-V MODEL FOR PHOTOLYSIS USING Si AS CATALYST SUNDAR SINGH V P & WARNEKAR P P | 654 | MITRA A K & SENGUPTA P K RELATIVISTIC ELECTRONIC STATE OF A ONE- DIMENSIONAL SYSTEM | 255 |
| CENTRES ASSOCIATED WITH 480 K THERMAL GLOW PEAK IN KBR:TL JOSHI R V & CHAUDHARI R T | 704 | ROY C L , SINGH A & ROY C ELASTIC CONSTANTS OF AGCl-AGBr MIXED CRYSTALS | 307 |
| PHOTODIELECTRIC EFFECT IN SRS:Mn:Zr PHOSPHORS RODAY KU N , CHAKRAVORTY KU N , SISODIA M S & KAMARA P C | 707 | SHRIVASTAVA U C DISLOCATION VELOCITIES IN ZINC SINGLE CRYSTALS | 314 |
| PIEZOELECTRIC MECHANOLUMINESCENCE AND PHOTOLUMINESCENCE OF TRIPHENYLAMINE CRYSTALS CHANDRA B P | 743 | BASU RAHUL BEHAVIOUR OF SCREW-LIKE DISLOCATIONS NEAR AN INTERFACE IN THE PRESENCE OF LATTICE FRICTIONAL FORCES--THREE DISLOCATIONS | 360 |
| | | GADALLA AFAF A ANALYSIS OF CRYSTAL BINDING ENERGIES OF ALKALI HALIDES | 362 |
| | | JAI SHANKER , JAIN V C & SHARMA L P CRYSTAL FIELD STABILIZATION ENERGIES OF SECOND-ROW TRANSITION-METAL OXIDES AND HALIDES | 362 |
| | | THAKUR LAMBODAR & SANDWAR B B RELATION BETWEEN MICROHARDNESS AND ATOMIC VIBRATION FREQUENCY IN ALKALI HALIDES | 362 |
| | | SUBRAMANIAM B | 362 |

SUBJECT GROUPINGS

| PAGE | | PAGE |
|------|---|------|
| 303 | SPECTRAL STUDY FAYEK M K & BAGHAT A A | 945 |
| 454 | COMPRESSION OF SODIUM CHLORIDE SINGLE CRYSTALS ALONG $\langle 001 \rangle$ DIRECTION JAIN L C & MURTY T S | 953 |
| 468 | ELECTRONIC POLARIZABILITIES AND RADII OF IONS IN RUTILE-TYPE CRYSTALS JAI SHANKER, AGRAWAL S C & JAIN V K | 961 |
| 473 | SEMICONDUCTORS | |
| 489 | | |
| 536 | CALCULATION OF CURRENT GAIN OF PLANAR TRANSISTORS | 10 |
| 549 | SRIVASTAVA ASHOK, WADHAWAN O P & MARATHE B R | |
| 553 | DEPENDENCE OF THE C-V INDEX OF A HYPERABRUPT JUNCTION ON JUNCTION PARAMETERS DATTA A K, GHOSH K, ROY S B, BISWAS T B & CHOUDHURY N K D | 84 |
| 557 | EXCITATION OF MAGNETOACOUSTIC WAVE BY ACOUSTIC WAVE IN INSB GUHA S, APTE N & NAMJOSHI P | 465 |
| 573 | CHARACTERIZATION OF DEEP TRAPPING CENTRES IN N-TYPE LIQUID PHASE EPITAXIAL GaAs BY HALL EFFECT SAXENA ASHOK K | 483 |
| 577 | THIN FILMS | |
| 658 | PHOTOCONDUCTING PROPERTIES OF CdS:Na FILMS BARGALE B B & PAWAR S H | 15 |
| 662 | LATTICE DISTORTION SPECTRUM OF EVAPORATED BISMUTH FILMS SAHA SAMAR K & MAHANTA P C | 159 |
| 711 | BREAKDOWN OF RBCL FILMS DUE TO APPLICATION OF ELECTRIC VOLTAGE PULSES YADAV B R & SHRIVASTAVA R K | 231 |
| 733 | EFFECT OF IN SITU ANNEALING ON ELECTRICAL PROPERTIES OF MnBi FILMS ACHAR P C & KAREKAR R N | 294 |
| 738 | VARIATION OF ELECTRICAL CONDUCTIVITY OF FERRIC HYDROXIDE FILMS WITH TEMPERATURE PAUL NIRMALA, KRISHNA PILLAI M G & JOSEPH K BABU | 311 |
| 747 | ELECTRICAL PROPERTIES OF VACUUM-EVAPORATED PBS-PBO FILMS KUMAR R, AGARWAL S K & SETHI V C | 369 |
| 809 | ELECTRICAL PROPERTIES OF Bi ₂ O ₃ LAYERS UNDER REDUCED PRESSURE PANDEY S L, SINGH S & SAXENA R N | 452 |
| 825 | IN SITU RESISTIVITY MEASUREMENTS ON THIN SILVER FILMS SALEEM IQBAL M, IJAZ-UR-REHMAN & BEG S | 614 |
| 829 | RESISTIVITY OF THIN BISMUTH FILMS VAMDATT A R | 706 |
| 851 | THERMOELECTRIC EFFECT IN Fe-Ni FILMS ANGADI M A & KARGUPPIKAR A M | 709 |
| 899 | FIELD-DEPENDENT ELECTRICAL CONDUCTIVITY OF INDIUM OXIDE FILMS JAIN D K & GARG J C | 842 |
| 903 | STRUCTURE AND GROWTH OF MnSe AND MnTe FILMS PRABHAT SINGH | 950 |
| 933 | SPUTTERED MOLYBDENUM FILM RESISTORS AWAT SINGHAR | 1014 |
| | SPECTROSCOPY | |
| | APPLICATION OF A WALL-STABILIZED DC ARC FOR SPECTRAL ANALYSIS OF SOLUTIONS | 47 |
| | | 1041 |

| PAGE | PAGE | | |
|---|---|--|--|
| EID M A , EL BEHERY K M & EL ANANY F A ISOTOPE SHIFT IN UNCLASSIFIED AND SOME NEW LINES OF NEODYMIUM SPECTRA IN THE REGION 3930-6450 ANGSTROMS AHMAD S A & SAKSENA G D LASER RAMAN SPECTRUM OF 3,4- DICHLOROBROMOBENZENE TRIPATHI S R & TRIPATHI G N R POLARIZED ABSORPTION SPECTRA OF FLUORANTHENE IN PURE AND MIXED CRYSTALS PALIT N B , CHAKRAVORTY S C & CHOWDHURY M K VIBRATIONAL SPECTRA OF BIOLOGICAL MOLECULES: 2,4-DIAMINO-6-HYDROXY PYRIMIDINE GOEL R K & SHARMA S N EMISSION SPECTRUM OF COPPER CHLORIDE MOLECULE MEENAKSHI RAJA RAO P VIBRATIONAL ASSIGNMENTS OF 2,3-, 2,5-, 2,6-, AND 3,5-DICHLOROANILINES GOEL R K , GUPTA S K , JAISWAL R M P & GARG P P EMISSION SPECTRA OF PH(+) AND PD(+) MOLECULES RAO P M R , DIXIT M N , BALASUBRAMANIAN T K & NARASIMHAM N A INFRARED ABSORPTION SPECTRA OF 2-AMINO-P- CRESOL AND 2-AMINO-4-CHLOROPHENOL GOEL R K , SHARMA S , KANSAL K P & SHARMA S N INFRARED ABSORPTION SPECTRA OF 2,3,4-; 2,4,5- AND 2,4,6-TRICHLOROANILINE SANYAL NITISH K & GOEL R K ROTATIONAL ANALYSIS OF THE (2,0) BAND OF C- 130(+)-16 MOLECULE OF COMET-TAIL SYSTEM VUJISIC B R , PESIC D S , WENIGER S & RAKOTORIJIMY D SPECTRAL STUDIES OF SOME URANYL COMPLEXES RASTOGI V K , PANDEY A N , GUPTA S L & SAXENA R C THE $\Delta\Delta''-\chi_1\alpha'$ PHOSPHORESCENCE OF CHLOROBENZALDEHYDE VAPOURS HAQUE M K & THAKUR S N A METHOD OF ABSOLUTE SPECTROSCOPIC ANALYSIS USING X-RAY FLUORESCENCE TECHNIQUE KRISHNAN T V SELF-ABSORPTION-FREE FEI SPECTRAL LINES FOR TEMPERATURE MEASUREMENT IN THE DC CARBON ARC EID M A , EL-BEHERY K M & DIAB S M. CALCULATION OF SPECTROSCOPIC CHARACTERISTICS OF SOME ACETOPHENONES USING PARISER-PARR- POPLE SCF-CI APPROXIMATION GUPTA V P VIBRATIONAL SPECTRUM OF 2,6-DICHLOROBENZAMIDE RAMANAMURTI D V , VENKATACHARYULU P & PREMASWARUP D VIBRATIONAL SPECTRA OF P-METHOXY BENZONITRITILE PATHAK A N & SINHA B K | 114 143 191 195 200 223 276 281 299 370 379 429 437 528 603 617 619 | ELECTRONIC ABSORPTION SPECTRA AND HYDROGEN BONDING BEHAVIOUR OF ANILINE AND PHENETIDINES GANGULY T & BAKERJEE S B NEW SPECTRUM OF NICL MOLECULE IN THE NEAR ULTRAVIOLET REGION DARJI A B & SHAH N R SPECTROCHEMICAL DETERMINATION OF EIGHT TRACE ELEMENTS IN STAINLESS STEEL MURTY P S & KAIMAL R STRUCTURE AND VIBRATIONAL SPECTRA OF ETHYLTHIONFORMATE RANDHAWA H S , GREWAL G S , ARORA C L & SARIN V N INFRARED STUDIES ON SOME DI-SUBSTITUTED PYRIDINES GOEL R K , GUPTA S K & SHARMA S N INFRARED ABSORPTION OF 2-AMINO-3-METHYL- AND 6-AMINO-2-METHYL-PYRIDINE GOEL R K , SHARMA S D , KANSAL K P & SHARMA S N TEMPERATURE DEPENDENCE OF PRESSURE-BROADENED MICROWAVE LINE-WIDTHS OF SOME ROTATIONAL LINES OF CARBONYL SULPHIDE JOHRI G K , GUPTA S , CHANDRA B & RISHISHWAR R P X-RAY K-ABSORPTION DISCONTINUITY IN CRYSTALLINE AND AMORPHOUS ARSENIC RAO Y L & MANDE C INFRARED SPECTRA OF THE BIOLOGICAL MOLECULE 4,6-DIHYDROXY-2-METHYL PYRIMIDINE SANYAL NITISH K , GOEL R K , KANSAL K P & SHARMA S N | 793 802 895 926 928 930 1023 1029 1032 1032 632 692 702 727 |
| ULTRASONICS | | | |
| SHENO PRAKASH , SINGH S , PRAKASH A , SINGH S K & KUMAR A FORMANT STRUCTURE OF BENGALI VOWELS AND SOME POSSIBLE USES OF A TRACKING LOOP FORMANT EXTRACTION SYSTEM CHAKRABARTI S K | 632 | | |
| X-RAYS | | | |
| PRELIMINARY X-RAY STUDY OF PYRENE PICRATE PURKAYASTHA S D & TALUKDAR A N PLASMON EXCITATION IN SOLIDS DURING X-RAY SCATTERING SRIVASTAVA K S | 702 727 | | |

AUTHOR INDEX

| PAGE | PAGE |
|--|--|
| ABHAI MANSINGH DIELECTRIC STUDIES ON THE LIQUID AND SOLID PHASES OF CHLOROBENZENE CIS-DECALIN MIXTURES | |
| 583 | CREATION AND ELIMINATION OF DISLOCATIONS IN FLOAT ZONE SILICON CRYSTALS |
| ACHAR P C EFFECT OF IN SITU ANNEALING ON ELECTRICAL PROPERTIES OF MNBI FILMS | BAGHAT A A SEE FAYEK M K |
| | 945 |
| ACHARYYA S SEE DATTA S K SEE GHOSH S K | BAHADUR HARISH ACCURATE MEASUREMENT OF TANGENTIAL VIBRATIONS OF QUARTZ CRYSTALS |
| | 905 |
| AGARWAL C B SEE ABHAI MANSINGH | BAKARE P P MOSSBAUER SPECTROSCOPIC STUDIES ON OXIDES AND HYDRATED OXIDES OF IRON |
| | 473 |
| AGARWAL M K ELECTRON MICROSCOPY OF TAS2 SINGLE CRYSTALS USING WEAK BEAM TECHNIQUE | BAL M SEE BAGAI R K |
| | 642 |
| AGARWAL M L SEE GOEL R K | BALASUBRAMANIAN T K SEE RAO P M R |
| | 276 |
| AGARWAL S K SEE KUMAR R | BANDOPADHYAYA T K SEE SUPEKAR S B |
| | 139 |
| AGARWALA R P SEE PANDE B M | BANERJEE M A COUNT RATE INTEGRATOR FOR USE WITH X-RAY SPECTROSCOPY WORK |
| | 799 |
| AGRAWAL R D THERMODYNAMICS OF MANGANESE-BEARING BINARY SUBSTITUTIONAL SOLUTIONS | BANERJEE P N SEE DATTA M |
| | 715 |
| AGRAWAL S C SEE JAI SHANKER | BANERJEE S B SEE GANGULY T |
| | 568 |
| AGRAWAL SHANKER LAL NEUTRON IRRADIATION EFFECTS ON MAGNETOCURRENT IN SEMICONDUCTOR DIODES | BARGALE B B PHOTOCOCONDUCTING PROPERTIES OF CDS:NA FILMS |
| | 793 |
| AHMAD A SEE AZIZ T | BASU A MEASUREMENTS OF SELF-DIFFUSION |
| | 494 |
| AHMAD M M EFFECT OF ETCHING CONDITIONS ON TRACK REGISTRATION CHARACTERISTICS OF SODA LIME GLASS DETECTOR | COEFFICIENTS IN HG AND GA BY A RADIONACTIVE TRACER TECHNIQUE |
| | 961 |
| AHMAD S A ISOTOPE SHIFT IN UNCLASSIFIED AND SOME NEW LINES OF NEODYMIUM SPECTRA IN THE REGION 3930-6450 ANGSTROMS | BASU B N A HEURISTIC FORMULA FOR THE DIELECTRIC LOADING FACTOR OF A HELIX SUPPORTED BY DIELECTRIC CIRCULAR RODS |
| | 63 |
| ANAND M S SEE PANDE B M | FIELD ANALYSIS OF A PRACTICAL HELICAL SLOW- WAVE STRUCTURE FOR TWTS |
| | 64 |
| ANANDA RAO S SIMPLE METHODS FOR GENERATION OF HOLOGRAPHIC LENS ARRAY | SEE SINHA A K |
| | 141 |
| ANGADI M A THERMOELECTRIC EFFECT IN FE-NI FILMS | BASU DEBASRI ON THE DEBYE CHARACTERISTIC TEMPERATURE OF |
| | 114 |
| ANSARI M H STUDY OF SURFACE DISTORTION AROUND DYNAMIC IMPACTS ON CLEAVAGES OF SODIUM BROMIDE SINGLE CRYSTALS | SOME CRYSTALS WITH NaCl-TYPE STRUCTURE |
| | 204 |
| ANTONY A V SEE JOSHI M S 751 | BASU M SEE GHOSH D C |
| | 544 |
| APTE N SEE GUHA S | BASU RAHUL A COMPUTER STUDY OF THE COMPOSITION OF |
| | 67 |
| ARORA C L SEE RANDHAWA H S | SOME AMORPHOUS ALLOYS: METALLIC GLASSES |
| | 709 |
| ASADULLA S MD SEE PONTICELLI G SEE SAstry B A | COMPUTER SIMULATION OF TERNARY MISCELLIBILITY GAP IN THE TERNARY ALLOY |
| | 147 |
| ASGHAR HUSAIN S OPTICAL STUDY OF MAGNETIC POLARIZATION IN POLYPROPYLENE | PD(77.5)Cu(6)Si(16.5) |
| | 1008 |
| ASGHAR HUSSAIN S DIELECTRIC INVESTIGATIONS IN MAGNETO- ELECTRET STATE OF POLYPROPYLENE | DISLOCATION VELOCITIES IN ZINC SINGLE CRYSTALS |
| | 236 |
| ASHOK J VARIABLE FREQUENCY INTERFERENCE FILTER | BEG S ELECTRICAL CHARACTERISTICS OF 50 K V |
| | 687 |
| AWATAR SINGH SPUTTERED MOLYBDENUM FILM RESISTORS | RESISTANCE POTENTIAL DIVIDER |
| | 614 |
| AWODE M R SEE KAULGUD M V | SEE SALEEM IQBAL M |
| | 28 |
| AZIZ T MEAN CHARGED MULTIPlicITIES IN HIGH ENERGY HADRON-NUCLEUS COLLISIONS | BHAGAWAT G K SEE SUNDER SINGH V P |
| | 468 |
| | BHAGMAT G K SEE SUNDARSINGH V P |
| | 754 |
| | BHANDARI R C SEE LODHA NILIMA |
| | 135 |
| | BHANUMATHI A SEE SAMBASIVA RAO K |
| | BHARATI S CATION DISTRIBUTION OF Mn ₂ FeO ₄ --A |
| | 747 |
| | MOSSBAUER SPECTRAL STUDY |
| | BHAT C M LIFETIMES OF SINGLE-PARTICLE STATES NEAR |
| | CA-48 |
| | 728 |
| | BHATNAGAR C S SEE ASGHAR HUSAIN S |
| | 167 |
| | SEE ASGHAR HUSSAIN S |
| | 845 |
| | SEE QUAMARA J K |
| | 24 |
| | SEE SHRIYASTAVA RUDRAKANT |
| | 923 |
| | SEE SHRIYASTAVA VIJAY K |
| | 1002 |
| | SEE SRIVASTAVA RUDRA KANT |
| | 20 |
| | 957 |
| | 387 |
| | SEE VARIYAR MALINI |
| | 798 |
| BAGAI R K 90 DEGREE GROWTH TWINS IN FLOAT-ZONE SILICON CRYSTALS | BHATNAGAR K G SEE BANERJEE M |
| | 532 |
| | BHATNAGAR V K SEE SEN K |
| | 1043 |

| PAGE | PAGE | | |
|---|--|--|--------------------------|
| BHATT V P STUDY OF SOLID-LIQUID INTERFACE OF BISMUTH-ANTIMONY ALLOY SINGLE CRYSTALS | 658 | IN A HE-HE LASER OPERATING AT 6328 ANGSTROMS | 419 |
| BHATTACHARJEE D K FORWARD-BACKWARD ASYMMETRY IN PROTON-NUCLEUS INTERACTION AT 70 GEV/C IN EMULSION | 397 | DARJI A B NEW SPECTRUM OF NiCl MOLECULE IN THE NEAR ULTRAVIOLET REGION | 802 |
| BHATTACHARYA A K SEE SARKAR B C | 441 | | |
| BHATTACHARYA D L SEE DATTA M | 568 | DAS S K HEAT TRANSMISSION THROUGH JUTE-FIBRE PACKINGS AT LOW TEMPERATURE | 910 |
| BHATTACHERJEE S LAYER DISORDERS IN CYLINDRICAL CRYSTALLITES AND THEIR EFFECTS ON DIFFRACTION INTENSITIES SEE DE A K | 1 59 299 907 299 441 94 642 | DATTA S K SEE BHARATI S DATT S C SEE ANSARI M H SEE RANJIT SINGH DATTA A K DEPENDENCE OF THE C-V INDEX OF A HYPERABRUPT JUNCTION ON JUNCTION PARAMETERS | 747 1008 839 84 |
| BHIDAY M R SEE JOGLEKAR A G | 299 | | |
| BHORASKAR S V SEE MAHAJAN P W | 907 | DATTA M ELECTRICAL CONDUCTIVITY AND THERMOELECTRIC POWER IN A8283 GLASSES | 568 |
| BHORASKAR V N SEE JOGLEKAR A G | 299 | | |
| BISWAS B N SEE SARKAR B C | 441 | DATTA S K ESTIMATION OF THERMAL DIFFUSION FACTOR OF N ₂ -CO ₂ GAS MIXTURE FROM THERMAL DIFFUSION COLUMN DATA | 816 |
| BISWAS T B SEE DATTA A K | 94 | | |
| BORLE W N SEE BAGAI R K 1005 | 642 | DATTA SHEKHAR KUMAR PREDICTION OF DIPOLE MOMENTS OF POLAR MOLECULES FROM THE RELATION BETWEEN TAU(SOLUTE) AND ETA(SOLVENT) | 58 368 |
| BRAHMAJI RAO V INFLUENCE OF DIELECTRIC CONSTANT ON CATIONIC MOBILITIES OF ELECTROLYTIC SOLUTION IN RELATION TO EIGEN MECHANISM | 1021 | DAW A N SEE SINGH B K DE A K DIFFRACTION INTENSITIES FROM A CLUSTER OF CURVED CRYSTALLITES WITH LAYER SHIFT SEE BHATTACHERJEE S | 1 58 337 |
| CHADDA SANJEEV ELECTRONIC SIMULATION OF ACOUSTIC EMISSION | 1031 | | |
| CHAKRABARTI S K FORMANT STRUCTURE OF BENGALI VOWELS AND SOME POSSIBLE USES OF A TRACKING LOOP FORMANT EXTRACTION SYSTEM | 692 | DEB ANITA SEE SAstry B A DESA E SEE DESA S E DESA S E SENSOR DESIGN FOR AN ELECTROMAGNETIC FLOW-METER | 351 351 351 |
| CHAKRAVARTY S C SEE DAS S K | 910 | DESAI H S SEE JOSHIPURA K N | 615 |
| CHAKRAVORTY KU N SEE RODAY KU N | 707 | DHAR R N DEVELOPMENT OF A HORIZONTAL MODEL OF CALCULABLE CROSS-CAPACITOR | 524 528 |
| CHAKRAVORTY S C SEE PALIT N B | 191 | DIAB S M SEE EID M A DIWAN P S SEE SONI R S | 292 276 |
| CHAND S SEE MEHENDRU P C | 183 | DIXIT M H SEE RAO P M R | |
| CHANDRA B SEE JOHRI G K | 1023 | DUDEJA J P EFFECT OF FIELD AND DETECTOR TEMPERATURES ON PHOTON COUNT STATISTICS | 348 285 |
| CHANDRA B P MECHANOLUMINESCENCE SPECTRA OF SODIUM BROMATE AND SODIUM CHLORATE CRYSTALS PIEZOELECTRIC MECHANOLUMINESCENCE AND PHOTOLUMINESCENCE OF TRIPHENYLAMINE CRYSTALS | 608 | DULLU U K SEE SHARMA R S 636 | |
| CHANDRA K SEE DHAR R N | | DURGAPAL M C MASSIVE SPHERES: SOME GENERAL CONSIDERATIONS AND APPLICATIONS | 171 |
| CHANDRA M MEASUREMENT AND ANALYSIS OF SOLAR RADIATION AND ILLUMINATION FOR CLEAR SKY CONDITIONS | 413 | DUTT S C AN ASSEMBLY FOR MEASURING THE DC CONDUCTIVITY OF ORGANIC SOLIDS | 1026 |
| CHANGDAR S N SEE BASU A | 87 | DUTTA ROY S K TEMPERATURE AND FREQUENCY DEPENDENCE OF DIELECTRIC PROPERTIES OF COSIF6.6H2O AROUND ITS STRUCTURAL PHASE TRANSITION TEMPERATURE | 981 |
| CHARY E S SEE PONTICELLI G | 212 | DWIVEDI D C LIQUID STRUCTURE OF TERT-BUTYL ALCOHOL IN NONPOLAR SOLVENTS FROM DIELECTRIC STUDIES | 40 |
| CHATTERJEE S D SEE MAJI M L | 611 | | |
| CHAUDHARI R T SEE JOSHI R V | 704 | | |
| CHAUDHARY D R SEE VEERENDRA KUMAR | 984 | | |
| CHAUDHURI B K CALCULATION OF TRANSVERSE LONGITUDINAL ELECTRICAL SUSCEPTIBILITIES IN ADP-TYPE CRYSTALS | 573 | | |
| CHAUDHURY IRA SEE GHOSH R | 669 | | |
| CHAURE R S VARIATION OF HARDNESS WITH LOAD FOR QUENCHED KBR SINGLE CRYSTALS | 365 | | |
| CHETAL A R SEE MAHAN M K | 401 | | |
| CHINNAPPAN V A SEE JAGANNATHAN R | 964 | | |
| CHOPRA J R SEE PANDEY A N | 510 | | |
| CHOURBEY JYOTI STRONG COUPLING HARMONIC OSCILLATOR POTENTIAL WITH WEAKLY COUPLED LINEAR AND CUBIC ANHARMONICITIES | 878 | EID M A APPLICATION OF A WALL-STABILIZED DC ARC FOR SPECTRAL ANALYSIS OF SOLUTIONS | 47 |
| CHOWDHURY M K SEE PALIT N B | 191 | SELF-ABSORPTION-FREE FEI SPECTRAL LINES FOR TEMPERATURE MEASUREMENT IN THE DC CARBON ARC | 528 |
| CHOWDHURY N K D SEE DATTA A K | 84 | | |
| CHOWDARY BABU N SEE BRAHMAJI RAO V | 1021 | EKBOTE P D APPLICATION OF HAGEMARK'S THEORY TO MULTICOMPONENT SYSTEMS ZNTEI Li, O AND NA-IMPLANTED CDS | 363 |
| DAHAKE S L SEE DHAR R N | 524 | EL ANANY F A SEE EID M A | 47 |
| DANDAWATE V D LASER POWER FLUCTUATIONS DUE TO STRIATIONS | | EL BEHERY K M SEE EID M A | 47 |

AUTHOR INDEX

| PAGE | | PAGE |
|------|--|------|
| 541 | SEE SANYAL NITISH K 722, 1032 | 299 |
| 945 | GOVIL ANIL K INVESTIGATIONS ON THE SECOND HARMONIC GENERATION AT BREAKDOWN IN P-M JUNCTIONS | 682 |
| 884 | GOPAL R GREEN'S FUNCTION CALCULATIONS ON THE PHOTOELECTRON SPECTRA OF SOME SMALL HETEROATOMIC PI-ELECTRON SYSTEMS | 917 |
| 678 | GOPALAKRISHNA MURTI P AN ALTERNATIVE APPROACH FOR THE DESCRIPTION OF PHYSICAL PROPERTIES IN FERROIC SPECIES | 449 |
| 383 | GOSWAMI K N PRELIMINARY SINGLE CRYSTAL X-RAY STUDY OF N-METHYL CROTANANINIUM IODIDE | 62 |
| 307 | GREWAL G S SEE RANDHAWA H S | 926 |
| 91 | GUHA S EXCITATION OF MAGNETOACOUSTIC WAVE BY ACOUSTIC WAVE IN InSB | 465 |
| 731 | GUPTA A P SEE JAI SHANKER | 553 |
| 573 | GUPTA D K SEE GUPTA S K GUPTA DEVINDER PI*-PI SYSTEMS IN THE QUARTZ ULTRAVIOLET ELECTRONIC ABSORPTION SPECTRA OF SOME DI- AND TRISUBSTITUTED ACETOPHENONES | 461 |
| 793 | SEMI-EMPIRICAL PI-ELECTRON CALCULATIONS ON SOME MONO SUBSTITUTED ACETOPHENONES | 327 |
| 842 | GUPTA M P SEE BAKARE P P | 473 |
| 223 | SEE BHARATI S | 747 |
| 383 | GUPTA R C SEE KHARE PUSHPA | 997 |
| 981 | SEE ROY ALPANA | 1017 |
| 87 | SEE SIRCAR RATNA | 757 |
| 588 | GUPTA S SEE JOHRI G K | 1023 |
| 629 | GUPTA S K CALCULATIONS OF CSDA RANGE AND PROJECTED RANGE OF MONOENERGETIC ELECTRONS | 461 |
| 977 | SEE GOEL R K 715, 718, 928 | 223 |
| 821 | GUPTA S L FLEXIBILITY OF M-X BOND OF SOME TETRAHALIDES OF FOURTH GROUP METALS BY COMPLIANCE SCHEME | 54 |
| 733 | SEE RASTOGI V K | 379 |
| 544 | GUPTA V P CALCULATION OF SPECTROSCOPIC CHARACTERISTICS OF SOME ACETOPHENONES. USING PARISER-PARR-POPLE SCF-CI APPROXIMATION | 603 |
| 84 | | |
| 669 | | |
| 629 | | |
| 851 | | |
| 829 | HAQUE M K THE 'A3A''-X1A' PHOSPHORESCENCE OF CHLOROBENZALDEHYDE VAPOURS | 429 |
| 295 | HATIBARUA J RELATIVE PERMITTIVITY OF THE ACETATES OF POTASSIUM, LITHIUM, RUBIDIUM AND CESIUM | 1019 |
| 899 | | |
| 930 | | |
| 281 | IBRAHIM M M ELECTRICAL PROPERTIES OF SINTERED SELENIUM POWDER COMPACTS | 242 |
| 928 | IJAZ-UR-REHMAN SEE SALEEM IQBAL M | 614 |
| 715 | INDUMATHY A SEE UCHIL J | 702 |
| 718 | IRFAN M SEE AZIZ T | 778 |
| 223 | ITYACHEN M A SEE MOHANAN PILLAI. K | 81 |
| 195 | SEE SREEDHARAN PILLAI K | 78 |
| | JAGANNATHA REDDY K P DISPERSION EFFECTS IN THE FM MODE-LOCKED LASER | 342 |
| | | 1045 |

| PAGE | PAGE | | |
|---|------|---|---------------------------------|
| JAGANNATHAN N R SECOND MOMENT OF SOLID HIPPURIC ACID BY WIDE-LINE NMR | 731 | SEE KUMAR M SEE SHARMA K S 557 | 649 536 |
| JAGANNATHAN R ON THE ISOTOPIC INVARIANTS OF POLYATOMIC MOLECULES | 964 | KAIMAL R SEE MURTY P S KAMARA P C SEE RODAY KU N KANAMORI HITOSHI LATTICE VIBRATION MODES IN KHF ₂ LATTICE VIBRATION MODES IN CDS | 895 707 738 129 281 |
| JAI SHANKER ANALYSIS OF CRYSTAL BINDING ENERGIES OF ALKALI HALIDES ELECTRONIC POLARIZABILITIES AND RADII OF IONS IN RUTILE-TYPE CRYSTALS VOLUME DEPENDENCE OF POISSON'S RATIO AND THE GRUNEISEN PARAMETER IN ALKALI HALIDES | 314 | KANSAL K P SEE GOEL R K 930 | 1032 494 |
| JAIN B K SEE SEN K | 961 | SEE SANYAL NITISH K | 1032 |
| JAIN D K FIELD-DEPENDENT ELECTRICAL CONDUCTIVITY OF INDIUM OXIDE FILMS | 553 | KAPOOR M L SEE AGRAWAL R D | 494 |
| JAIN J K SEE KAPUR A K | 532 | KAPUR A K EVALUATION OF VAN DER WAALS COEFFICIENTS IN SILVER AND THALLIUM HALIDES | 549 294 |
| JAIN K SEE MEHENDRU P C | 183 | KAREKAR R N SEE ACHAR P C KARGUPPIKAR A M SEE ANGADI M A KARMAKAR S SEE RAY S K KARUPPANAN T A CENTRIFUGAL DISTORTION CONSTANTS OF CYCLOBUTANE AND CYCLOBUTANE-D ₈ CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF C ₃ H ₆ , C ₃ D ₆ AND C ₃ F ₆ | 709 354 623 626 |
| JAIN L C COMPRESSION OF SODIUM CHLORIDE SINGLE CRYSTALS ALONG (001) DIRECTION | 953 | KAULGUD M V ISENTROPIC COMPRESSIBILITY BEHAVIOUR OF AMINES IN DILUTE AQUEOUS SOLUTIONS | 864 |
| JAIN P C TRANSPORT PROPERTIES OF NEON, KRYPTON AND XENON ACCORDING TO L-J (12-6) POTENTIAL | 459 | KESHAVA RAO Y V CHARACTERISTICS OF FIREBALLS PRODUCED IN 200 GEV/C PROTON-NUCLEUS INTERACTIONS | 593 |
| JAIN R K TEMPERATURE DEPENDENCE OF EFFECTIVE MASS OF ELECTRONS AND HOLES AND INTRINSIC CONCENTRATION IN SILICON | 662 | KHAMESHARA S M DIELECTRIC RELAXATION TIME AND DIPOLE MOMENT OF SOME SUBSTITUTED ANILINES IN BENZENE SOLUTIONS | 110 107 |
| JAIN S C SUPERCONDUCTIVITY IN CERTAIN METALS | 489 | KHAN A SEE AHMAD M M KHANNA K M CALCULATION OF THERMODYNAMIC FUNCTIONS AND FLUCTUATIONS IN THE GROUND-STATE PARTICLE NUMBER FOR INTERACTING BOSONS | 454 760 767 |
| JAIN V C SEE JAI SHANKER | 314 | HYDRODYNAMICS OF PERSISTENT MASS CURRENTS | 767 |
| JAIN V K SEE JAI SHANKER | 961 | KHANNA K N FERMI SURFACE DISTORTION IN SODIUM | 24 |
| JAISWAL R M P SEE GOEL R K SEE GUPTA DEVINDER 332 | 223 | KHARE M L SEE QUAMARA J K SEE SHRIVASTAVA RUDRAKANT | 923 |
| JASUJA K L SEE SOOD S C | 327 | SEE SHRIVASTAVA VIJAY K SEE SRIVASTAVA RUDRA KANT | 1002 20 |
| JAYA SANKAR C K SEE LAKSHMAN S V J | 377 | SEE VARIYAR MALINI | 387 |
| JHA B L SEE MAHAN M K | 1015 | KHARE PUSHPA BROAD LINE PROTON MAGNETIC RESONANCE INVESTIGATIONS ON SOLID SEMI-CARBAZIDE | 997 |
| JHA LAKSHMI KANT SEE THAKUR K P | 401 | HYDROCHLORIDE | 997 |
| JOGLEKAR A G A NEW TYPE OF IRRADIATION HEAD FOR ACTIVATION ANALYSIS | 209 | KHARE R K SEE RAJAN R | 809 |
| JOHRI G K A NEW APPROXIMATION UNDER THE PERTURBATION THEORY FOR MICROWAVE LINE-WIDTH CALCULATION AND THE QUADRUPOLE MOMENT OF BENZENE | 289 | KHUBCHANDANI P G SEE GHOSH ADARSH | 821 |
| TEMPERATURE DEPENDENCE OF PRESSURE- BROADENED MICROWAVE LINE-WIDTHS OF SOME ROTATIONAL LINES OF CARBONYL SULPHIDE | 248 | KONDALA RAO M SEE KRISHNA MURTY T S G | 713 |
| JOSEPH K BABU SEE PAUL NIRMALA | 1023 | KOTAK M D SEE PATEL A R | 609 |
| JOSHI D C REDUCTION AND SECOND QUANTIZATION OF GENERALIZED ELECTROMAGNETIC FIELDS FOR NON-ZERO MASS SYSTEM | 311 | KRISHNA MURTY T S G ON THE SYMMETRY GROUP OF NON-RIGID MOLECULE BF ₂ CH ₃ | 713 |
| JOSHI M S KINETICS OF GROWTH AND DISSOLUTION OF POTASSIUM DIHYDROGEN PHOSPHATE CRYSTALS IN AQUEOUS SOLUTIONS | 479 | KRISHNA PILLAI M G SEE PAUL NIRMALA | 311 |
| MICROTOPOGRAPHICAL STUDIES OF SECOND ORDER PRISM FACES OF SYNTHETIC QUARTZ CRYSTALS | 162 | KRISHNAMURTY ANJALI PULSE HEIGHT ANALYZER FOR HIGH COUNTING | 999 |
| MICROTOPOGRAPHICAL STUDIES OF N-FACES OF NATURAL ANALCITE CRYSTALS | 751 | RATE IN MOSSBAUER WORK | 999 |
| JOSHI R V CENTRES ASSOCIATED WITH 480 K THERMAL GLOW PEAK IN KBR:TL | 704 | KRISHNAN T V A METHOD OF ABSOLUTE SPECTROSCOPIC | 437 |
| JOSHI S N SEE BASU B N | 63 | ANALYSIS USING X-RAY FLUORESCENCE TECHNIQUE | 437 |
| JOSHIPURA K H APPLICATION OF GLAUBER APPROXIMATION TO FESHBACH-TYPE RESONANCE SCATTERING | 615 | KUMAR A ELECTRICAL CONDUCTIVITY AND DIELECTRIC CONSTANT OF SEMICONDUCTING GLASSES: AS-GE- | 318 |
| JYOTI B G SEE MARIHAL B N | 1028 | TE AND SE-GE-TE ALLOY SYSTEMS SEE SHEO PRAKASH | 632 |
| KABILAN A P AN INVESTIGATION OF THE ELECTRON CYCLOTRON RESONANCE LINE SHAPE IN TRANSIENT AFTERGLOW PLASMAS OF NEON AND ARGON | 993 | KUMAR M PHONON-ROTON EXCITATION-IN SUPERFLUID HE- | 649 |
| KACHHAVA C M SEE JAIN S C | 489 | 4 KUMAR R ELECTRICAL PROPERTIES OF VACUUM-EVAPORATED | 649 |

AUTHOR INDEX

PAGE

PAGE

| | | | |
|--|------|---|------------|
| PBS-PBO FILMS KUMAR V | | MEHTA A S AN EMPIRICAL GENERALIZED RELATION ON DECAY OF GAS PHOSPHORS | 940 |
| FORCE FIELD AND VIBRATIONAL AMPLITUDES OF ALKALI METAL HALIDE DIMERS USING ELECTRON GAS MODEL DATA | 540 | MISHRA K C SEE TRIPATHY M | 305 |
| KUNDU H K SEE MARATHE P K | 130 | MISHRA P C SEE GOPAL R | 917 |
| KUSHWAHA R M SEE SINGH S | 254 | MISHRA R K COINCIDENCE STUDIES OF CE-144 WITH IMPROVED DETECTION SYSTEM | 180 |
| KWONG R | 265 | MISHRA S C SEE SIRCAR RATNA MISHRA S S ASHUTOSH SEE KHARE PUSHPA MISHRA U K X-RAY DIFFRACTION AND FLUORESCENCE SPECTRAL STUDIES ON (CAS,BAS): CU PHOSPHORS | 757 997 |
| APPLICATIONS OF THE COULOMB-GLAUBER-OCHKUR APPROXIMATION TO N=2 AND N=3 ELECTRON IMPACT EXCITATION OF HE(+)) | 289 | MISRA A ELECTRON-PLASMA MODEL FOR THE ELECTROMAGNETIC EFFECT AT METALLIC FRACTURE | 6 |
| LAHOTI P S SEE JOGLEKAR A G | 1015 | MISRA B N ESTIMATION OF GROUND STATE WAVEFUNCTIONS AND ESR PARAMETERS OF CU(2+) ION | 851 |
| LAKSHMAN S V J | 318 | LESLIE J D INTERMOLECULAR ASSOCIATION THROUGH HYDROGEN BONDING OF P-HALOPHENOLS IN NON-POLAR SOLVENTS | 541 |
| SLATER-CONDON AND SPIN-ORBIT PARAMETERS FOR TM(3+) IN THULIUM SULPHATE, THULIUM ETHYL SULPHATE AND ZINC SULPHIDE | 150 | MISRA C K DIELECTRIC RELAXATION STUDY OF | 784 |
| LAKSHMINARAYAN K N SEE KUMAR A | 834 | INTERMOLECULAR ASSOCIATION THROUGH HYDROGEN BONDING OF P-HALOPHENOLS IN NON-POLAR SOLVENTS | 205 |
| LAL H B SEE VERMA B K | 754 | MITRA A K STUDIES ON THE STABILITY AND STRENGTH OF FCC ALUMINIUM USING MORSE POTENTIAL | 368 |
| LEBEDEVA N N SEE PRAKASH S G | 538 | MITRA R N SEE SINGH B K MITRA S S SEE DUTTA ROY S K | 981 |
| LODHA NILIMA PHONON DISPERSION IN LIQUID CARBON DISULPHIDE SEE SAXENA N S | 999 | MOHAN RAO P SEE JOSHI M S MOHAN S MOHANAN P SEE ZACHARIAH E J | 751 |
| LOKANATHAN S SEE KRISHNAMURTY ANJALI | 907 | MOHANAN PILLAI K EFFECT OF PH ON THE LIESEGANG RING FORMATION OF LEAD CARBONATE CRYSTALS | 216 |
| MACHWE V G SEE MEHTA A S | 401 | MOHANTY B S SEE NANDA D P SEE TRIPATHY M | 857 |
| MAHAJAN P W PARALLEL PLATE ELECTRON MULTIPLIER USING SN02-AL203 | 159 | MOR S L SEE MISHRA U K | 324 |
| MAHAN M K DIELECTRIC PROPERTIES OF INDIAN CLAY MINERALS: BENTONITE AND PYROPHILLITE | 611 | MULLA M R TEMPERATURE DEPENDENCE OF MAGNETIC SUSCEPTIBILITY OF CASO4: DY PHOSPHORS | 305 |
| MAHANTA P C SEE SAHA SAMAR K | 271 | MURTHY C R K SEE RAO A S N SEE RAJYAM B S | 936 |
| MAJI M L ANALYSIS OF THE DIAMAGNETIC ANISOTROPY OF THERMO- AND MAGNETO-ELECTRET STATES | 1031 | MURTY P S SPECTROCHEMICAL DETERMINATION OF EIGHT TRACE ELEMENTS IN STAINLESS STEEL | 262 |
| MAJUMDAR D SEE SARKAR G K | 904 | MURTY T S SEE JAIN L C | 953 |
| MALLIKARJUN RAO S P SEE CHADDA SANJEEV SEE SAMPATH KUMAR J | 455 | MURUGESU S EFFECTIVE POTENTIAL FOR THE O(N?) SYMMETRIC PHI-6 MODEL | 771 |
| MALLIKARJUNA REDDY P SEE MANOHARA MURTHY N | 834 | | |
| MAMADOV A M SEE PRAKASH S G | 1029 | | |
| MANDE C SEE RAO Y L | | | |
| MANN W B NUCLEAR-DECAY DATA--THE STATEMENT OF UNCERTAINTIES | 548 | NAGAIAH B DEBYE TEMPERATURE OF SOME SOLID SOLUTION SERIES WITH THE NaCl STRUCTURE | 895 |
| MANOHARA MURTHY N EFFECT OF MAGNETIC FIELD ON THE CURRENT GAIN OF JUNCTION TRANSISTORS | 455 | NAHA S SEE BHATTACHARJEE D K | 903 |
| MARATHE B R SEE SRIVASTAVA ASHOK | 10 | NAHA S C SEE GHOSH D C | 597 |
| MARATHE P K ESTIMATION OF SODIUM CONTENT OF COTTON FOR USE IN NEUTRON ACTIVATION DOSIMETRY | 130 | NAIR K G SEE ZACHARIAH E J | 544 |
| MARDUXAEB A R SEE PRAKASH S G | 834 | NAKAMORI NOBUYUKI SEE KANAMORI HITOSHI | 216 |
| MARIHAL B H MOTIONAL IMPEDANCE OF A RIGID, CONDUCTING, DIAMAGNETIC PROLATE PLASMA SPHEROID | 1028 | NAMJOSHI P SEE GUHA S | 129 |
| MATHUR B S RELATIVISTIC CORRECTION FOR THE NPL (INDIA)-PTB (WEST GERMANY) CLOCK SYNCHRONIZATION EXPERIMENTS | 601 | NANDA D P CALCULATION OF MULTIPLET SPLITTINGS OF AlII STATES OF SOME DIATOMIC ALKALINE-EARTH HALIDES BY EXTENDED HUCKEL APPROACH | 465 |
| SEE SAXENA G M | 220 | NANGIA O P SEE BAGAI R K | 324 |
| MATHUR V N S SEE AGRAWAL R D | 494 | NARASIMHA RAO C V L SUBSTITUENT GROUP EFFECTS ON NQR FREQUENCY OF Br IN CERTAIN BROMOMETHANE DERIVATIVES | 642 |
| MATSUMOTO MASAO SEE KANAMORI HITOSHI | 129 | NARASIMHAM N A SEE RAO P M R | 631 |
| MEENAKSHI RAJA RAO P EMISSION SPECTRUM OF COPPER CHLORIDE MOLECULE | 200 | NARAYANAN KUTTY T R SEE RAVINDRAN HAIR K | 276 |
| MEHENDRU P C MECHANISM RESPONSIBLE FOR THE OBSERVED DIELECTRIC RELAXATIONS IN POLYVINYLDENE FLUORIDE | 183 | NARCHAL M L SEE SIKRI A K | 304 |
| MEHROTRA S H SEE KHANNA K M | 760 | | 606 |
| | | | 1047 |

| PAGE | | PAGE | |
|--|-----|---|-----|
| NATHRAJAN A SPARKING POTENTIALS IN LONGITUDINAL MAGNETIC FIELDS | 725 | PONTICELLI G EPR AND OPTICAL ABSORPTION STUDIES ON THE COORDINATION COMPOUNDS OF COPPER(II) WITH (3,5-DIMETHYL ISOXAZOLE) AND (3-METHYL, 5- PHENYL ISOXAZOLE) LIGANDS | 212 |
| NATH D SEE CHAUDHURI B K | 573 | PRABHANANDA D S ERRORS IN LINE WIDTH ANALYSIS DUE TO UNRESOLVED HYPERFINE STRUCTURES | 823 |
| NISHIMURA TETSURO SEE KANAMORI HITOSHI | 738 | PRABHAT SINGH STRUCTURE AND GROWTH OF MNSE AND MNTE FILMS | 950 |
| OH C H SEE MURUGESU S | 771 | PRABHURAM TEMPERATURE DEPENDENCE OF ROTATIONAL RELAXATION IN O- AND H- HYDROGEN | 970 |
| OM SINGH AVERAGED POTENTIAL FOR COMPLEX POLAR FLUIDS | 91 | PRAHLLAD U D SEE SREEDHARA MURTHY N | 818 |
| PALIT N B POLARIZED ABSORPTION SPECTRA OF FLUORANTHENE IN PURE AND MIXED CRYSTALS | 191 | RAJAPATI S R SEE PANDEY J D | 815 |
| PANDE A K CLOSE-COUPLING APPROACH TO LOW ENERGY ELECTRON SCATTERING BY OXYGEN MOLECULE SEE DURGAPAL M C | 408 | PRAKASH A SEE SHED PRAKASH | 632 |
| PANDE B M STUDY OF BLISTERS FORMED DUE TO HELIUM ION BOMBARDMENT ON STAINLESS STEEL | 171 | PRAKASH S SEE SINGH S | 254 |
| PANDEY A N CATIONIC EFFECT ON THE INTRAMOLECULAR FORCES OF $B_{(VI)}O_6$ OCTAHEDRA IN ORDERED CUBIC PEROVSKITES $A_2B_{(II)}B_{(VI)}O_6$ SEE GUPTA S L | 74 | PRAKASH S G STATIC AND IMPULSE PHOTOCONDUCTIVITY IN Bi_2GeO_3 | 834 |
| SEE KUMAR V | 510 | PRAMANIK K SEE RAY S K | 354 |
| SEE RASTOGI V K | 54 | PRASAD L S R K SEE KRISHNA MURTY T S G | 713 |
| 379, 973 | 540 | PRASAD N SEE SINGH S | 254 |
| PANDEY J D THERMAL CONDUCTIVITIES OF BINARY GAS MIXTURES SEE PANDEY R P | 302 | PRASAD S S SEE DATTA M | 568 |
| SEE TIWARI V | 815 | PRAVINKUMAR P A SEE ZACHARIAH E J | 216 |
| PANDEY R K MAGNETIC PROPERTIES OF SI-DOPED YIG SINGLE CRYSTALS | 825 | PREMASWARUP D SEE HARASIMHA RAO C V L SEE RAMANAMURTI D V | 631 |
| PANDEY R P ANHARMONIC COEFFICIENTS OF ALKALI HALIDE CRYSTALS | 51 | PURI R K SEE KESHAVA RAO Y V | 593 |
| PANDEY S L ELECTRICAL PROPERTIES OF Bi_2O_3 LAYERS UNDER REDUCED PRESSURE | 639 | PURI USHA CALCULATION OF IONIC RADII OF ALKALI HALIDE CRYSTALS THROUGH SCREENED COULOMB POTENTIAL | 810 |
| PANDYA G R SEE BHATT V P | 452 | PURKAYASTHA S D PRELIMINARY X-RAY STUDY OF PYRENE PICRATE | 702 |
| PARSHAD R SEE BAHADUR HARISH SEE GOVIL ANIL K | 658 | PURNIMA BHARTI SEE KHARE PUSHPA | 997 |
| PATEL A R EFFECT OF ACID CONCENTRATION AND TEMPERATURE ON THE SELECTIVE ETCH RATE AND ETCH PIT MORPHOLOGY OF (111) FACES OF CaF_2 CRYSTALS | 682 | PUSHPALATHA B R A FUNCTION GENERATOR USING INTEGRATED CIRCUITS FOR MOSSBAUER EFFECT WORK | 298 |
| PATEL J V SEE AGARWAL M K | 825 | PUTTASWAMY N G SEE BHAT C M SEE PUSHPALATHA B R | 728 |
| PATEL T C SEE AGARWAL M K | 499 | 957 | 298 |
| PATHAK A N VIBRATIONAL SPECTRA OF P-METHOXY BENZONITRILE | 609 | QUAMARA J K CHARGE CHARACTERISTICS AND DIELECTRIC BEHAVIOUR OF PVF_2 MAGNETOELECTRETS AT AUDIO AND RADIO FREQUENCY | 24 |
| PATIL K J ISOTHERMAL COMPRESSIBILITY BEHAVIOUR OF AQUEOUS SOLUTIONS OF TERT-BUTYL ALCOHOL AT 25 DEGREE C | 874 | QURESHI M S SEE SHRIYASTAVA RUDRAKANT SEE SRIVASTAVA RUDRA KANT | 923 |
| PATRA P A COMPOSITE FLUID SPHERE WITH TWO DENSITY DISTRIBUTIONS IN GENERAL RELATIVITY | 619 | RAI S B SEE TRIPATHI R | 372 |
| PAUL HIRMALA VARIATION OF ELECTRICAL CONDUCTIVITY OF FERRIC HYDROXIDE FILMS WITH TEMPERATURE | 311 | RAJAN R THERMAL EXPANSION OF THE CERAMIC SYSTEM $Pb(2-x)Ba(x)Li(0.5)Nb(1.5)O_6$ | 809 |
| PAWAR S H SEE BARGALE B B SEE MULLA M R | 15 | RAJPUT B S SEE JOSHI D C | 988 |
| SEE SABNIS S G | 936 | RAJYAM B S DIELECTRIC DISPERSION IN CERTAIN BINARY MIXTURES AND SOLUTIONS | 374 |
| PELIZZI C SEE SASTRY B A | 562 | RAKOTORIJIMY D SEE VUJISIC B R | 370 |
| PELIZZI G SEE PONTICELLI G | 337 | RAMA SASTRY C V SEE RAJYAM B S | 374 |
| PESIC D S SEE VUJISIC B R | 212 | RAMA SWAMI SEE AGRAWAL SHANKER LAL | 807 |
| PHUKAN A M SEE KHANNA K M | 370 | RAMADHAR SINGH SEE ABHAI MANSINGH | 583 |
| | 767 | RAMAKRISHNA J SEE SHENOY R K SEE UCHIL J | 145 |
| | | RAMAKRISHNA RAO T V SEE SREEDHARA MURTHY N | 702 |
| | | RAMAN Y ISOTHERMAL DECAY OF $CaO:Eu:TB$ PHOSPHORS | 818 |
| | | RAMANA MURTY S TEMPERATURE DEPENDENCE OF INTERNAL FRICTION IN POLYCRYSTALLINE FERRITES | 207 |
| | | RAMANA RAO G FORCE FIELD STUDIES OF ALPHA, BETA- UNSATURATED AMIDES I: N,N-DIMETHYL | 933 |

AUTHOR INDEX

| PAGE | | PAGE |
|---|--|------------|
| 94 | SABAPATHY K MOLECULAR CONSTANTS OF ACETYLENES:PARTII-- CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF SILYLACETYLENE SEE RAMASWAMI R | 134 912 |
| 922 | | |
| 617 | SABESAN R | |
| 134 | DIELECTRIC STUDIES ON CARBOXYLIC ACIDS: PART III--DIPOLAR THERMODYNAMIC EXCESS FUNCTIONS OF ACETIC, PROPIONIC AND BUTYRIC ACIDS IN NON-POLAR SOLVENTS | 890 |
| 912 | | |
| 623 | SABHAPATHY K MOLECULAR CONSTANTS OF ACETYLENES:PART-I CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF GEH3CCH AND GED3CCH | 625 |
| 625 | | |
| 541 | SABHIS S G X-RAY INDUCED THERMOLUMINESCENCE IN CASO4:SM PHOSPHORS | 562 |
| 999 | SAHA M SEE MAJI M L | 611 |
| 6 | SAHA SAMAR K LATTICE DISTORTION SPECTRUM OF EVAPORATED BISMUTH FILMS | 159 |
| 207 | | |
| 926 | SAHAI R CHARGE TRANSFER INTERACTION OF SOME BIOMOLECULES WITH CHLORANIL | 504 |
| 839 | SAHU KUSUM SEE RAO A S N | 262 |
| 262 | SAIKIA S K SEE SURYANARAYANA I | 1010 |
| 56 | SAKSENA G D SEE AHMAD S A | 114 |
| 56 | SAKSENA M P SEE PRABHURAM | 970 |
| 276 | SALEEM IQBAL M INSITU RESISTIVITY MEASUREMENTS ON THIN SILVER FILMS | 614 |
| 1029 | SALEEM MOHAMMAD DIPOLE POMERON AND NEUTRON-PROTON ELASTIC SCATTERING BETWEEN 70 AND 400 GEV/C | 678 |
| 302 | SAMBASIVA RAO K DIELECTRIC BEHAVIOUR OF FERROELECTRIC AMMONIUM BISULPHATE POWDERS | 135 |
| 973 | SAMPATH KUMAR J A LOW NOISE HIGH GAIN AMPLIFIER FOR ACOUSTIC EMISSION | 904 |
| 379 | SANDWAR B B SEE THAKUR LAMBODAR | 360 |
| 54 | SANYAL NITISH K INFRARED ABSORPTION SPECTRA OF 2,3,4-; 2,4, 5- AND 2,4,6-TRICHLOROANILINE | 299 |
| 499 | INFRARED SPECTRA OF THE BIOLOGICAL MOLECULES 4,6-DIHYDROXY-2-METHYL PYRIMIDINE | 1032 |
| 857 | MOLECULAR CONSTANTS AND VIBRATIONAL AMPLITUDES OF SOME TETRAHEDRAL SYSTEMS | 722 |
| 60 | SARAF K B SEE JOSHI M S | 162 |
| 304 | SARGURUMOORTHY M SEE SABESAN R | 890 |
| 1 | SARIN V N SEE RANDHAWA H S | 926 |
| 58 | SARKAR B C ACQUISITION BEHAVIOUR OF PHASE LOCKED LOOPS IN THE FACE OF RAYLEIGH AND LOGNORMAL FADING SIGNALS | 441 |
| 354 | SARKAR D C SEE SARKAR G K | 271 |
| 441 | SARKAR G K STUDY OF PARAMETERS OF ARGON PLASMA BY MICROWAVE SCANNING TECHNIQUE | 271 |
| 262 | SARKAR P C MOLECULAR CONSTANTS OF SOME HEXAHALOANIONS OF GROUP IV A AND GROUP V A BELONGING TO OH POINT GROUP | 516 |
| 248 | SARMAH H C SEE KHANNA K H | 767 |
| 707 | SASTRY B A EPR STUDIES ON N,N'-ETHYLENEBIS (SALICYLALDIMINATO) COPPER(II)-THIOUREA AND N,N'-O-PHENYLENEBIS (SALICYLALDIMINATO) COPPER(II)-THIOUREA SEE PONTICELLI G | 337 |
| 1017 | SATYANARAYANA RAO T SEE BRAHMAJI RAO V | 212 |
| 214 | SAVARI RAJ G A SEE JAGANNATHAN R | 964 |
| 214 | SAXENA A K SEE MISRA C K | 784 |
| 544 | SAKENA ASHOK K CHARACTERIZATION OF DEEP TRAPPING CENTRES | 1049 |
| 84 | | |
| 597 | | |
| 274 | | |
| 1023 | | |
| RAY S K INJECTION SYNCHRONIZATION IN THE FACE OF HEAVY INTERFERENCE SEE SARKAR B C | | |
| REDDY T RS SEE RAO A S N | | |
| RISHISHWAR R P SEE JOHRI G K | | |
| ROY ALPANA PMR STUDY OF INTRAMOLECULAR MOTION IN SOLID 2,4-DINITROPHENYL HYDRAZINE | | |
| ROY C L RELATIVISTIC ELECTRONIC STATE OF A ONE- DIMENSIONAL SYSTEM | | |
| ROY G SEE ROY C L | | |
| ROY J SEE GHOSH D C | | |
| ROY S B SEE DATTA A K | | |
| ROY T SEE BHATTACHERJEE D K SEE PATRA P | | |

| PAGE | PAGE | |
|---|------|-----|
| IN N-TYPE LIQUID PHASE EPITAXIAL GaAs BY HALL EFFECT | 493 | 812 |
| SAXENA G M STABILITY MEASUREMENTS IN TIME DOMAIN USING DUAL MIXER TIME DIFFERENCE SYSTEM SEE MATHUR B S | 220 | 682 |
| SAXENA M C SEE MISRA C K | 601 | |
| SAXENA N S FREQUENCY MOMENTS AND VISCOSITIES OF LIQUID RUBIDIUM SEE LODHA NILIMA | 784 | |
| SAXENA R C SEE GUPTA S L SEE RASTOGI V K 973 | 538 | |
| SAXENA R N SEE PANDEY S L | 754 | |
| SELIM EZZAT T M IONIZATION AND DISSOCIATION OF PROPYLENE BY ELECTRON IMPACT | 54 | |
| SELVARAJAN V SEE NATARAJAN A | 379 | |
| SEN K I-V CHARACTERISTICS OF SEMICONDUCTOR- INSULATOR-SEMICONDUCTOR SOLAR CELLS | 452 | |
| SEN S N RADIO FREQUENCY CONDUCTIVITY OF OPALESCENT BINARY LIQUID MIXTURES SEE GHOSH A K | 31 | |
| SENGODAN V VIBRATIONAL ANALYSIS OF MONOMERIC TRIHALIDES OF GALLIUM AND INDIUM | 725 | |
| SENGUPTA K DIELECTRIC RELAXATION IN METHYL MERCAPTOACETATE AND METHYLCYANOACETATE IN BENZENE SOLUTION SEE GHOSH D C | 532 | |
| SENGUPTA P K SEE MITRA A K | 977 | |
| SESHAGIRI RAO T SEE RAMANA MURTY S | 588 | |
| SETHI V C SEE KUMAR R | 620 | |
| SETTY D L R SEE UCHIL J | 404 | |
| SHAFI M SEE AZIZ T | 544 | |
| SHAH N A SEE SHARMA R S | 205 | |
| SHAH N R SEE DARJI A B | 933 | |
| SHANMUGASUNDARAM V EVALUATION OF CRITICAL CONSTANTS FROM THE INTERMOLECULAR FORCE CONSTANTS | 369 | |
| SHARMA B K ESTIMATION OF LIMITING SOLID VOLUME OF POLAR SUBSTANCES: AN ANALYTICAL METHOD | 702 | |
| SURFACE TENSION OF HARD SPHERE LIQUIDS WITH ATTRACTIVE INTERACTIONS AND ESTIMATION OF RAO'S ACOUSTICAL PARAMETER | 778 | |
| SHARMA K P SEE SINHA G P | 121 | |
| SHARMA K S COMPRESSIBILITY OF SIMPLE METALS ON HARRISON-POTENTIAL | 802 | |
| LINEAR POTENTIAL AND PHONONS IN ALUMINIUM | 36 | |
| SHARMA L K SEE CHOUBEY JYOTI | 915 | |
| SHARMA L P SEE JAI SHANKER | 457 | |
| SHARMA R S A BANDPASS FILTER USING SINGLE OPERATIONAL AMPLIFIER POLE | 788 | |
| REALIZATION OF ACTIVE BANDPASS FILTERS SIMULATED INDUCTANCE USING OPERATIONAL AMPLIFIERS | 557 | |
| SHARMA S SEE GOEL R K | 536 | |
| SHARMA S D SEE GOEL R K SEE GOSWAMI K H SEE SANYAL NITISH K | 878 | |
| SHARMA S H SEE GOEL R K 281, 928, 930 SEE SANYAL NITISH K | 314 | |
| SHARMA S R REFLECTION AND TRANSMISSION OF ION ACOUSTIC SOLITON AT A PLASMA INTERFACE | 636 | |
| SHARMA Y K EVALUATION OF CRITICAL CURRENTS AND VOLTAGES IN THE SINGLE INJECTION CURRENT | 285 | |
| IN AN INSULATOR | 121 | |
| SHARWAN KUMAR SEE GOVIL ANIL K | 281 | |
| SHASHIDHARA PRASAD J LOW ANGLE X-RAY DIFFRACTION STUDY OF LIQUID CRYSTAL: CHOLESTERYL METHYL CARBONATE | 930 | |
| SHENOV R K AUTOMATIC TRIGGER PULSE LOGIC FOR THE PULSE PROGRAMMER FOR USE IN PULSED NMR | 62 | |
| SHEO PRAKASH ACOUSTIC BEHAVIOUR OF ELECTROLYTIC SOLUTIONS IN ALCOHOLS | 195 | |
| SHRIVASTAVA ANJALI SEE KAULGUD M V | 722 | |
| SHRIVASTAVA R K SEE YADAV B R | 1032 | |
| SHRIVASTAVA R N SEE CHAURE R S | 673 | |
| SHRIVASTAVA RUDRAKANT DIELECTRIC LOSS FACTOR IN MAGNETICALLY POLARIZED SILICONE RUBBER TUBULAR ELECTRETS BY TSDC | 54 | |
| SHRIVASTAVA U C ELASTIC CONSTANTS OF AGCl-AGBr MIXED CRYSTALS | 379 | |
| SHRIVASTAVA VIJAY K AFTER-EFFECT OF HEAT AND MAGNETIC FIELD ON THE DIELECTRIC PERMITTIVITY OF SULPHUR | 452 | |
| SHUKLA G C SEE TANDON V K | 977 | |
| SIDDARAME GOWDA L SEE SHASHIDHARA PRASAD J | 588 | |
| SIKRI A K ONE-SPIN CROSS-RELAXATION IN DILUTE NICKEL FLUOSILICATE | 620 | |
| SINGH A SEE ROY C L | 977 | |
| SINGH B K ELECTROCHEMICALLY DEPOSITED SCHOTTKY CONTACTS ON N-EPIТАXIAL SILICON | 588 | |
| SINGH G C SEE SARKAR P C | 620 | |
| SINGH N QUANTUM CORRECTIONS TO THERMODYNAMIC PROPERTIES OF A MIXTURE OF HARD SPHERE AND SQUARE WELL MOLECULES | 404 | |
| SINGH HARISINGH BAHADUR VISCOSITY BEHAVIOUR OF DIPHENYLAMINE-P- TOLUIDINE SYSTEM | 544 | |
| SINGH R S SEE PANDE A K | 205 | |
| SINGH S MOLECULAR INTERACTION AND THERMODYNAMIC PROPERTIES OF TERNARY LIQUID MIXTURES SEE PANDEY S L | 933 | |
| SINGH S K SEE SHEO PRAKASH | 369 | |
| SINGH V SEE SAHAI R | 702 | |
| SINHA A K CIRCUIT PARAMETERS FOR A COMPLEX HELICAL SWS COMBINING RESULTS FOR SIMPLER CONFIGURATIONS | 778 | |
| SINHA A P B SEE BAKARE P P SEE BHARATI S | 457 | |
| SINHA B K SEE PATHAK A N | 802 | |
| SINHA G P AXIAL CYLINDRICAL SURFACE WAVE TRANSMISSION ACROSS A BEND | 36 | |
| SINHA S K SEE SINGH N | 915 | |
| SIRCAR RATNA STUDY OF MOLECULAR REORIENTATION IN | 722 | |
| PHENOTHIAZINE BY PMR | 121 | |
| SIRDDESHMUHK D B SEE NAGAIAH B SEE RAO B K | 281 | |
| SISODIA M L SEE KHAMESHARA S M | 930 | |
| SISODIA M S SEE RODAY KUN | 62 | |
| SIVANARAYANA K SEE SINGH S | 195 | |
| SIVARAMAN S SEE RAMAN Y SEE SONI R S | 722 | |
| SOFI G Q LEPTONIC AND HADRONIC DECAY WIDTHS OF NEXT QUARKONIUM (ψ) | 195 | |
| SONI R S LUMINESCENCE OF ZNO PHOSPHOR IN GREEN AND | 673 | |

AUTHOR INDEX

PAGE

| | PAGE | PAGE |
|---|------|--|
| RED REGIONS SOOD S C | 292 | SWAIN B B |
| ANNEALING EFFECTS ON DC CURRENT GAIN (BETA) OF SILICON PLANAR TRANSISTORS SREEDHARA MURTHY N | 377 | ON SARMA AND RAO'S RELATION FOR TAU FOR BINARY MIXTURES OF POLAR LIQUIDS |
| RKRV POTENTIAL ENERGY CURVE AND DISSOCIATION ENERGY OF CAO SREEDHARAN PILLAI K | 818 | TALUKDAR A H SEE PURKAYASTHA S D |
| ORIGIN OF GROWTH HILLOCKS ON THE <001> SURFACE OF LEAD MOBYDATE CRYSTALS SREENIVAS G SEE ZACHARIAH E J | 78 | TALWAR D N PHONON MODE BEHAVIOUR IN MIXED CUPROUS HALIDES |
| SRINIVASA RAO A EFFECT OF HIGH PRESSURES ON THE HYDROGEN BOND SYSTEMS OF SOME ALCOHOLS | 216 | THAKUR J QUARK MODEL AND OFF-SHELL FORM-FACTORS OF NUCLEONS |
| SRINIVASACHARYA K G SEE SENGODAN V | 132 | THAKUR K P MOELWYN-HUGHES PARAMETER OF PURE LIQUIDS AND LIQUID METAL ALLOYS |
| SRINIVASAN R SEE JAGANNATHAN N R SEE SHENOY R K | 620 | THAKUR LAMBODAR CRYSTAL FIELD STABILIZATION ENERGIES OF SECOND-ROW TRANSITION-METAL OXIDES AND HALIDES |
| SRIVASTAVA A K SEE TIWARI M M | 731 | THAKUR S N SEE HAQUE M K THIMMA NAIDU G SEE SREEDHARA MURTHY N |
| SRIVASTAVA ASHOK CALCULATION OF CURRENT GAIN OF PLANAR TRANSISTORS | 145 | THIYAGARAJAN P SEE SHANMUGASUNDARAM V |
| SRIVASTAVA D S SEE AHMAD M M | 665 | THIYAGARAJAN G RELATIONSHIP BETWEEN POTENTIAL ENERGY CONSTANTS AND HEAT OF ATOMIZATION |
| SRIVASTAVA K K SEE KUMAR A | 10 | SEE SUBHEDAR M K |
| SRIVASTAVA K P SEE DATTA M | 107 | TIWARI M C SEE MEHTA A S |
| SRIVASTAVA K S PLASMON EXCITATION IN SOLIDS DURING X-RAY SCATTERING | 318 | TIWARI M M RESONANCE ENERGIES OF NON-ALTERNANT HYDROCARBONS |
| SRIVASTAVA R K SEE ASGHAR HUSSAIN S | 568 | TIWARI R S SEE SHARMA S R |
| SRIVASTAVA RUDRA KANT ELECTRET PROPERTIES OF ELECTRICALLY CHARGED SILICONE RUBBER | 957 | TIWARI V EXCESS THERMODYNAMIC PROPERTIES AND INTERACTIONS IN BENZENE + TETRAHYDROFURAN AND METHYL ETHYL KETONE + BUTANOL SOLUTIONS |
| THERMAL CURRENTS IN MAGNETICALLY POLARIZED SILASTIC TUBULAR ELECTRETS | 20 | TANDON V K DIPOLE AND QUADRUPOLE POLARIZABILITIES AND SHIELDING FACTORS OF LI USING HYDRODYNAMIC ANALOGY |
| SRIVASTAVA S L SEE DWIVEDI D C | 40 | TRIGUNAYAT G C SEE WAHAB M A |
| SRIVASTAVA U C MOLECULAR ORBITAL ENERGIES AND X-RAY K- ABSORPTION SPECTRA OF COPPER IN METAL AND ITS OXIDES | 258 | TRIPATHI D N SEE PANDE A K |
| SRIVASTAVA V K SEE SEN K | 532 | TRIPATHI G H R SEE TRIPATHI S R |
| SUBHEDAR M K INTERPRETATION OF THE SPECTRA OF SUBSTITUTED BORAZINES BY UREY-BRADLEY FORCE FIELD | 396 | TRIPATHI R INFLUENCE OF VIBRATION ROTATION INTERACTION ON FRANCK-CONDON FACTORS |
| SEE THIYAGARAJAN G | 392 | TRIPATHI S R LASER RAMAN SPECTRUM OF 3,4- DICHLOROBROMOBENZENE |
| SUBRAHMANYAM S V SEE MANOHARA MURTHY N | 455 | TRIPATHY M FORCE CONSTANTS OF SOME XY4 MOLECULES BY MODIFIED REDINGTON AND ALJIBURY METHOD |
| SUBRAMANIAM B RELATION BETWEEN MICROHARDNESS AND ATOMIC VIBRATION FREQUENCY IN ALKALI HALIDES | 362 | TYAGI B S SEE RASTOGI V K |
| SUBRAMANIAM BRINDA EVALUATION OF GRUNEISEN CONSTANT OF KCL- KBR MIXED SYSTEM | 57 | UCHIL J TEMPERATURE DEPENDENCE OF CL-35 NQR IN SOME CHLORONITROTOLUENES |
| SUNDARSINGH V P PHOTOLYTIC BEHAVIOUR OF P AND P(+) SILICON CRYSTAL IN HF | 468 | UMA DEVI S SEE GOPALAKRISHNA MURTI P UPADHYAY R K SEE TIWARI M M URABE KEI SEE KANAMORI HITOSHI |
| SUNDER SINGH V P I-V MODEL FOR PHOTOLYSIS USING SI AS CATALYST | 654 | 738 |
| NICKEL OXIDE ELECTRODE FOR PHOTOLYSIS | 28 | VAIDYAN V K SEE MOHANAN PILLAI K |
| SUPEKAR S B DIELECTRIC TRANSIENT RESPONSE OF SOME BIOMOLECULES FOLLOWING ULTRAVIOLET RADIATION | 139 | VAMDATT A R RESISTIVITY OF THIN BISMUTH FILMS |
| SURESH CHANDRA ELASTIC CONSTANTS OF PHLOROGLUCINAL DIHYDRATE BY X-RAY DIFFUSE SCATTERING | 1012 | VARADARAJAN R SEE SABESAN R |
| SURI D P SEE GOSWAMI K N | 62 | VARIYAR MALINI ELECTRICAL CONDUCTION AND ISOTHERMAL DIELECTRIC RELAXATION IN PERSPEX |
| SURI S K SEE TANDON V K | 218 | VASANTHA D SEE ASHOK J |
| SURYANARAYANA I STABILITY OF INTRAMOLECULAR HYDROGEN BOND OF 8-HYDROXY QUINOLINE IN DIFFERENT SOLVENTS: IR SPECTROSCOPIC STUDY | 1010 | 1004 |
| SURYANARAYANA M SEE SAMPATH KUMAR J | 904 | 1051 |

| PAGE | PAGE | |
|--|--------------------------|--|
| VASANTHACHARYA N Y HIGH TEMPERATURE PHASE TRANSITION IN V305 | 71 | |
| VASUDEVAN K SEE ZACHARIAH E J | 216 | |
| VASUDEVAN S SEE VASANTHACHARYA N Y | 71 | |
| VEERENDRA KUMAR PREDICTION OF EFFECTIVE THERMAL CONDUCTIVITY OF TWO-PHASE POROUS MATERIALS USING RESISTOR MODEL | 984 | |
| VENKATA RAMIAH K SEE RAMANA RAO G | 94 | |
| VENKATACHARYULU P SEE RAMANAMURTI D V | 617 | |
| VENKATARAMAN G SEE MARATHE P K | 130 | |
| VENKATARAMANI A SEE SOOD S C | 377 | |
| VENKATESWARLU K SEE KARUPPANNAH T A 626 SEE RAMASWAMI R | 623 | |
| SEE SABAPATHY K | 912 | |
| SEE SABHAPATHY K | 134 | |
| VERMA B K TRANSPORT PROPERTIES OF MONOCLINIC RARE-EARTH SESQUIOXIDES | 608 | |
| VERMA J K D SEE BASU DEBASRI | 150 | |
| VERMA R D SEE CHANDRA B P | 204 | |
| VERMA R L LIGHT ABSORPTION AND PHOTOEMISSION OF AG-O-CS PHOTOCATHODE | 608 | |
| VERMA U P SEE KUMAR V SEE PANDEY A N SEE RASTOGI V K | 138 540 510 302 | |
| VIR SINGH EFFECT OF POLARIZED VELOCITY DISTRIBUTION OF ELECTRONS ON DOUBLE IONIZATION OF HE BY PROTON IMPACT | 176 | |
| VIRENDRA PRATAP SEE VERMA B K | 150 | |
| VUJISIC B R ROTATIONAL ANALYSIS OF THE (2,0) BAND OF C-130(+)-16 MOLECULE OF COMET-TAIL SYSTEM | 658 | |
| VYAS A R SEE BHATT V P | 370 | |
| WAJDHAWAN O P SEE SRIVASTAVA ASHOK | 10 | |
| WAHAB M A ENTROPY CONTRIBUTIONS IN DETERMINING THE RELATIVE STABILITIES OF POLYTYPES | 577 | |
| WARNEKAR P P SEE SUNDARSINGH V P SEE SUNDER SINGH V P | 468 | |
| WENIGER S SEE VUJISIC B R | 654, 28 | |
| WILLIAMSON W(JR) SEE KWONG R | 370 | |
| ZACHARIAH E J MICROWAVE ABSORBING MATERIAL USING RUBBER AND CARBON | 216 | |
| ZAFAR M SEE AZIZ T | 778 | |
| ZOPE J K SEE EKBOTE P D | 363 | |

KEYWORD INDEX

| PAGE | PAGE | | |
|---|------|--|------|
| ABSORBERS, ATOMIC CALCULATIONS OF CSDA RANGE AND PROJECTED RANGE OF MONOENERGETIC ELECTRONS | 461 | ACTIVATION ENERGY RELAXATION TIME AND ACTIVATION ENERGY FOR VISCOSITY FROM RADIOFREQUENCY CONDUCTIVITY MEASUREMENTS | 588 |
| ABSORPTION SPECTRA ELECTRONIC ABSORPTION SPECTRA AND HYDROGEN BONDING BEHAVIOUR OF ANILINE AND PHENETIDINES | 793 | ADP-TYPE CRYSTALS CALCULATION OF TRANSVERSE LONGITUDINAL ELECTRICAL SUSCEPTIBILITIES IN ADP-TYPE CRYSTALS | 573 |
| INFRARED ABSORPTION SPECTRA OF 2-AMINO-P- CRESOL AND 2-AMINO-4-CHLOROPHENOL | 281 | AFTERGLOW PLASMAS AN INVESTIGATION OF THE ELECTRON CYCLOTRON RESONANCE LINE SHAPE IN TRANSIENT AFTERGLOW PLASMAS OF NEON AND ARGON | 993 |
| INFRARED ABSORPTION SPECTRA OF 2,3,4-; 2,4, 5- AND 2,4,6-TRICHLORODANILINE | 299 | AGING EFFECT OF PHYSICAL AGING ON ELECTRICAL PROPERTIES OF POLYSTYRENE | 839 |
| PI*-PI SYSTEMS IN THE QUARTZ ULTRAVIOLET ELECTRONIC ABSORPTION SPECTRA OF SOME DI- AND TRISUBSTITUTED ACETOPHENONES | 332 | ALCOHOLS ACOUSTIC BEHAVIOUR OF ELECTROLYTIC SOLUTIONS IN ALCOHOLS | 632 |
| POLARIZED ABSORPTION SPECTRA OF FLUORANTHENE IN PURE AND MIXED CRYSTALS | 191 | EFFECT OF HIGH PRESSURES ON THE HYDROGEN BOND SYSTEMS OF SOME ALCOHOLS | 132 |
| SPECTRAL STUDIES OF SOME URANYL COMPLEXES | 379 | | |
| VIBRATIONAL SPECTRA OF BIOLOGICAL MOLECULES: 2,4-DIAMINO-6-HYDROXY PYRIMIDINE | 195 | ISOTHERMAL COMPRESSIBILITY BEHAVIOUR OF AQUEOUS SOLUTIONS OF TERT-BUTYL ALCOHOL AT 25 DEGREE C | 499 |
| VIBRATIONAL SPECTRA OF P-METHOXY BENZONITRILE | 619 | LIQUID STRUCTURE OF TERT-BUTYL ALCOHOL IN NONPOLAR SOLVENTS FROM DIELECTRIC STUDIES | 40 |
| VIBRATIONAL SPECTRUM OF 2,6- DICHLOROBENZAMIDE | 617 | ALKALI HALIDES ANALYSIS OF CRYSTAL BINDING ENERGIES OF ALKALI HALIDES | 314 |
| ACETIC ACID DIELECTRIC STUDIES ON CARBOXYLIC ACIDS: PART III--DIPOLAR THERMODYNAMIC EXCESS FUNCTIONS OF ACETIC, PROPIONIC AND BUTYRIC ACIDS IN NON-POLAR SOLVENTS | 890 | ANHARMONIC COEFFICIENTS OF ALKALI HALIDE CRYSTALS | 825 |
| ACETOPHENONES CALCULATION OF SPECTROSCOPIC CHARACTERISTICS OF SOME ACETOPHENONES USING PARISER-PARR-POPLE SCF-CI APPROXIMATION | 603 | CALCULATION OF IONIC RADII OF ALKALI HALIDE CRYSTALS THROUGH SCREENED COULOMB POTENTIAL | 810 |
| PI*-PI SYSTEMS IN THE QUARTZ ULTRAVIOLET ELECTRONIC ABSORPTION SPECTRA OF SOME DI- AND TRISUBSTITUTED ACETOPHENONES | 332 | FORCE FIELD AND VIBRATIONAL AMPLITUDES OF ALKALI METAL HALIDE DIMERS USING ELECTRON GAS MODEL DATA | 540 |
| SEMI-EMPIRICAL PI-ELECTRON CALCULATIONS ON SOME MONO SUBSTITUTED ACETOPHENONES | 327 | RELATION BETWEEN MICROHARDNESS AND ATOMIC VIBRATION FREQUENCY IN ALKALI HALIDES | 362 |
| ACETYLENES MOLECULAR CONSTANTS OF ACETYLENES: PART II-- CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF SILYLACETYLENE | 134 | VOLUME DEPENDENCE OF POISSON'S RATIO AND THE GRUENEISEN PARAMETER IN ALKALI HALIDES | 553 |
| MOLECULAR CONSTANTS OF ACETYLENES: PART I-- CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF GEH ₃ CCH AND GED ₃ CCH | 625 | ALKALI METAL HALIDES FORCE FIELD AND VIBRATIONAL AMPLITUDES OF ALKALI METAL HALIDE DIMERS USING ELECTRON GAS MODEL DATA | 540 |
| ACOUSTIC BEHAVIOUR ACOUSTIC BEHAVIOUR OF ELECTROLYTIC SOLUTIONS IN ALCOHOLS | 632 | ALKALINE-EARTH HALIDES CALCULATION OF MULTIPLET SPLITTINGS OF A ² II STATES OF SOME DIATOMIC ALKALINE- EARTH HALIDES BY EXTENDED HUCKEL APPROACH | 324 |
| ACOUSTIC EMISSION A LOW NOISE HIGH GAIN AMPLIFIER FOR ACOUSTIC EMISSION | 904 | ALLOY SYSTEMS THERMODYNAMICS OF MANGANESE-BEARING BINARY SUBSTITUTIONAL SOLUTIONS | 494 |
| ELECTRONIC SIMULATION OF ACOUSTIC EMISSION | 1031 | ALLOYS A COMPUTER STUDY OF THE COMPOSITION OF SOME AMORPHOUS ALLOYS: METALLIC GLASSES | 67 |
| ACOUSTIC SOLITON REFLECTION AND TRANSMISSION OF ION ACOUSTIC SOLITON AT A PLASMA INTERFACE | 673 | COMPUTER SIMULATION OF TERNARY MISCELLIBILITY GAP IN THE TERNARY ALLOY PD(77.5)Cu(6)Si(16.5) | 147 |
| ACOUSTIC WAVES EXCITATION OF MAGNETOACOUSTIC WAVE BY ACOUSTIC WAVE IN InSB | 465 | ELECTRICAL CONDUCTIVITY AND DIELECTRIC CONSTANT OF SEMICONDUCTING GLASSES: AS-GE- TE AND SE-GE-TE ALLOY SYSTEMS | 318 |
| ACQUISITION BEHAVIOUR ACQUISITION BEHAVIOUR OF PHASE LOCKED LOOPS IN THE FACE OF RAYLEIGH AND LOGNORMAL FADING SIGNALS | 441 | MOELWYN-HUGHES PARAMETER OF PURE LIQUIDS AND LIQUID METAL ALLOYS | 209 |
| ACTIVATION ANALYSIS A NEW TYPE OF IRRADIATION HEAD FOR ACTIVATION ANALYSIS | 289 | STUDY OF SOLID-LIQUID INTERFACE OF BISMUTH- ANTIMONY ALLOY SINGLE CRYSTALS | 658 |
| | | | 1053 |

| PAGE | | PAGE | | |
|--|-----|---|---|----|
| THE FATIGUE OF COPPER-CHROMIUM ALLOY | 383 | ARC | APPLICATION OF A WALL-STABILIZED DC ARC | 47 |
| THE PLASTIC DEFORMATION OF COPPER-BERYLLIUM ALLOY | 307 | | FOR SPECTRAL ANALYSIS OF SOLUTIONS | |
| ALUMINIUM | 536 | | SELF-ABSORPTION-FREE FEI SPECTRAL LINES | |
| LINEAR POTENTIAL AND PHONONS IN ALUMINIUM | | | FOR TEMPERATURE MEASUREMENT IN THE DC | |
| STUDIES ON THE STABILITY AND STRENGTH OF FCC ALUMINIUM USING MORSE POTENTIAL | | | CARBON ARC | |
| ALUMINIUM OXIDE | 205 | ARGON | AN INVESTIGATION OF THE ELECTRON CYCLOTRON | |
| PARALLEL PLATE ELECTRON MULTIPLIER USING SN02-AL203 | | | RESONANCE LINE SHAPE IN TRANSIENT | |
| AMIDES | 907 | | AFTERGLOW PLASMAS OF NEON AND ARGON | |
| FORCE FIELD STUDIES OF ALPHA, BETA-UNSATURATED AMIDES I: N,N-DIMETHYL ACRYLAMIDE | 94 | | STUDY OF PARAMETERS OF ARGON PLASMA BY MICROWAVE SCANNING TECHNIQUE | |
| AMINES | 864 | ARSENIC | ELECTRICAL CONDUCTIVITY AND DIELECTRIC CONSTANT OF SEMICONDUCTING GLASSES: AS-GE-TE AND SE-GE-TE ALLOY SYSTEMS | |
| ISENTROPIC COMPRESSIBILITY BEHAVIOUR OF AMINES IN DILUTE AQUEOUS SOLUTIONS | | | X-RAY K-ABSORPTION DISCONTINUITY IN CRYSTALLINE AND AMORPHOUS ARSENIC | |
| AMINO-2-METHYL-PYRIDINE,6- | 930 | ARSENIC SULPHIDE | ELECTRICAL CONDUCTIVITY AND THERMOELECTRIC POWER IN AS ₂ S ₃ GLASSES | |
| INFRARED ABSORPTION OF 2-AMINO-3-METHYL- AND 6-AMINO-2-METHYL-PYRIDINE | | | ASYMMETRY | |
| AMINO-3-METHYL-PYRIDINE,2- | 930 | | FORWARD-BACKWARD ASYMMETRY IN PROTON-NUCLEUS INTERACTION AT 70 GEV/C IN EMULSION | |
| INFRARED ABSORPTION OF 2-AMINO-3-METHYL- AND 6-AMINO-2-METHYL-PYRIDINE | 281 | ATOMIC VIBRATION FREQUENCY | ATOMIC VIBRATION FREQUENCY | |
| AMINO-4-CHLOROPHENOL,2- | | RELATION BETWEEN MICROHARDNESS AND ATOMIC VIBRATION FREQUENCY IN ALKALI HALIDES | | |
| INFRARED ABSORPTION SPECTRA OF 2-AMINO-P-CRESOL AND 2-AMINO-4-CHLOROPHENOL | 281 | ATOMIZATION | RELATIONSHIP BETWEEN POTENTIAL ENERGY CONSTANTS AND HEAT OF ATOMIZATION | |
| AMINO-P-CRESOL,2- | 135 | | AUDIO FREQUENCY | |
| INFRARED ABSORPTION SPECTRA OF 2-AMINO-P-CRESOL AND 2-AMINO-4-CHLOROPHENOL | | | CHARGE CHARACTERISTICS AND DIELECTRIC BEHAVIOUR OF PVF ₂ MAGNETOELECTRETS AT AUDIO AND RADIO FREQUENCY | |
| AMMONIUM BISULPHATE | 67 | AXIAL CYLINDRICAL SURFACE WAVE | AXIAL CYLINDRICAL SURFACE WAVE | |
| DIELECTRIC BEHAVIOUR OF FERROELECTRIC AMMONIUM BISULPHATE POWDERS | | | TRANSMISSION ACROSS A BEND | |
| AMORPHOUS ALLOYS | 904 | | | |
| A COMPUTER STUDY OF THE COMPOSITION OF SOME AMORPHOUS ALLOYS: METALLIC GLASSES | | 636 | BANDPASS FILTER | |
| AMPLIFIER GAIN | | | A BANDPASS FILTER USING SINGLE OPERATIONAL AMPLIFIER POLE | |
| A LOW NOISE HIGH GAIN AMPLIFIER FOR ACOUSTIC EMISSION | | 121 | REALIZATION OF ACTIVE BANDPASS FILTERS | |
| AMPLIFIER,OPERATIONAL | | | BARIUM SULPHIDE | |
| A BANDPASS FILTER USING SINGLE OPERATIONAL AMPLIFIER POLE | | 354 | X-RAY DIFFRACTION AND FLUORESCENCE SPECTRAL STUDIES ON (CAS,BAS): CU PHOSPHORS | |
| AMPLIFIERS | | 751 | BEND | |
| SIMULATED INDUCTANCE USING OPERATIONAL AMPLIFIERS | | | AXIAL CYLINDRICAL SURFACE WAVE | |
| AMPLIFIERS,LOW NOISE | | | TRANSMISSION ACROSS A BEND | |
| INJECTION SYNCHRONIZATION IN THE FACE OF HEAVY INTERFERENCE | | 825 | BENGALI VOWELS | |
| ANALCITE | | | FORMANT STRUCTURE OF BENGALI VOWELS AND SOME POSSIBLE USES OF A TRACKING LOOP FORMANT EXTRACTION SYSTEM | |
| MICROTOPOGRAPHICAL STUDIES OF N-FACES OF NATURAL ANALCITE CRYSTALS | | 821 | BENTONITE | |
| ANHARMONIC COEFFICIENTS | | | DIELECTRIC PROPERTIES OF INDIAN CLAY MINERALS: BENTONITE AND PYROPHILLITE | |
| ANHARMONIC COEFFICIENTS OF ALKALI HALIDE CRYSTALS | | 878 | BENZENE | |
| ANHARMONIC OSCILLATOR | | | A NEW APPROXIMATION UNDER THE PERTURBATION THEORY FOR MICROWAVE LINE-WIDTH CALCULATION AND THE QUADRUPOLE MOMENT OF BENZENE | |
| ENERGY CALCULATION OF ANHARMONIC OSCILLATOR BY DALGARNO SUM RULE | | 793 | DIELECTRIC RELAXATION IN METHYL MERCAPTOACETATE AND METHYL CYANOACETATE IN BENZENE SOLUTION | |
| ANHARMONICITIES | | | DIELECTRIC RELAXATION TIME AND DIPOLE MOMENT OF SOME SUBSTITUTED ANILINES IN BENZENE SOLUTIONS | |
| STRONG COUPLING HARMONIC OSCILLATOR POTENTIAL WITH WEAKLY COUPLED LINEAR AND CUBIC ANHARMONICITIES | | 110 | EXCESS THERMODYNAMIC PROPERTIES AND INTERACTIONS IN BENZENE + TETRAHYDROFURAN AND METHYL ETHYL KETONE + BUTANOL SOLUTIONS | |
| ANILINE | | 377 | BENZIDINYL 2:4-DIHYDROXY PROPIOPHENONE MAGNETO AND SPECTRAL STUDIES ON RARE EARTH | |
| ELECTRONIC ABSORPTION SPECTRA AND HYDROGEN BONDING BEHAVIOUR OF ANILINE AND PHENETIDINES | | 294 | | |
| ANILINES, SUBSTITUTED | | 658 | | |
| DIELECTRIC RELAXATION TIME AND DIPOLE MOMENT OF SOME SUBSTITUTED ANILINES IN BENZENE SOLUTIONS | | | | |
| ANNEALING | | | | |
| ANNEALING EFFECTS ON DC CURRENT GAIN (β) OF SILICON PLANAR TRANSISTORS | | | | |
| EFFECT OF IN SITU ANNEALING ON ELECTRICAL PROPERTIES OF MNBI FILMS | | | | |
| ANTIMONY | | | | |
| STUDY OF SOLID-LIQUID INTERFACE OF BISMUTH-ANTIMONY ALLOY SINGLE CRYSTALS | | | | |

| KEYWORD INDEX | | | |
|---|------|--|------|
| | PAGE | PAGE | |
| CHELATES OF BETA-BENZIDINYL 2:4-DIHYDROXY PROPIOPHENONE BENZONITRILES | 973 | AND METHYL ETHYL KETONE + BUTANOL SOLUTIONS | 51 |
| VIBRATIONAL SPECTRA OF P-METHOXY BENZONITRILE | 619 | BUTYL ALCOHOL, TERT- ISOTHERMAL COMPRESSIBILITY BEHAVIOUR OF AQUEOUS SOLUTIONS OF TERT-BUTYL ALCOHOL AT 25 DEGREE C | 499 |
| BERYLLIUM THE PLASTIC DEFORMATION OF COPPER-BERYLLIUM ALLOY | 307 | LIQUID STRUCTURE OF TERT-BUTYL ALCOHOL IN NONPOLAR SOLVENTS FROM DIELECTRIC STUDIES | 40 |
| BINARY LIQUID MIXTURES DIELECTRIC DISPERSION IN CERTAIN BINARY MIXTURES AND SOLUTIONS | 374 | BUTYRIC ACID DIELECTRIC STUDIES ON CARBOXYLIC ACIDS: PART III--DIPOLAR THERMODYNAMIC EXCESS FUNCTIONS OF ACETIC, PROPIONIC AND BUTYRIC ACIDS IN NON-POLAR SOLVENTS | 890 |
| BINARY LIQUID SYSTEMS CRYSTAL GROWTH FROM BINARY IMMISCIBLE LIQUID SYSTEMS | 60 | | |
| BINDING ENERGY ANALYSIS OF CRYSTAL BINDING ENERGIES OF ALKALI HALIDES | 314 | C-130(+)-16 MOLECULE ROTATIONAL ANALYSIS OF THE (2,0) BAND OF C-130(+)-16 MOLECULE OF COMET-TAIL SYSTEM | 370 |
| BIOLOGICAL MOLECULES INFRARED SPECTRA OF THE BIOLOGICAL MOLECULES 4,6-DIHYDROXY-2-METHYL PYRIMIDINE | 1032 | C-V INDEX DEPENDENCE OF THE C-V INDEX OF A HYPERABRUPT JUNCTION ON JUNCTION PARAMETERS | 84 |
| VIBRATIONAL SPECTRA OF BIOLOGICAL MOLECULES: 2,4-DIAMINO-6-HYDROXY PYRIMIDINE | 195 | CADMUM IODIDE ENTROPY CONTRIBUTIONS IN DETERMINING THE RELATIVE STABILITIES OF POLYTYPES | 577 |
| BIOMOLECULES CHARGE TRANSFER INTERACTION OF SOME BIOMOLECULES WITH CHLORANIL | 504 | CADMUM SULPHIDE APPLICATION OF HAGEMARK'S THEORY TO MULTICOMPONENT SYSTEMS ZNTE: LI, O AND NA-IMPLANTED CDS | 363 |
| DIELECTRIC TRANSIENT RESPONSE OF SOME BIOMOLECULES FOLLOWING ULTRAVIOLET RADIATION | 139 | LATTICE VIBRATION MODES IN CDS PHOTOCONDUCTING PROPERTIES OF CDS:NA FILMS | 129 |
| BISMUTH LATTICE DISTORTION SPECTRUM OF EVAPORATED BISMUTH FILMS | 159 | CALCIUM FLUORIDE EFFECT OF ACID CONCENTRATION AND TEMPERATURE ON THE SELECTIVE ETCH RATE AND ETCH PIT MORPHOLOGY OF (111) FACES OF CAF ₂ CRYSTALS | 609 |
| RESISTIVITY OF THIN BISMUTH FILMS | 706 | CALCIUM OXIDE ISOTHERMAL DECAY OF CAO:EU:TB PHOSPHORS | 207 |
| STUDY OF SOLID-LIQUID INTERFACE OF BISMUTH-ANTIMONY ALLOY SINGLE CRYSTALS | 658 | RKRV POTENTIAL ENERGY CURVE AND DISSOCIATION ENERGY OF CAO | 818 |
| BISMUTH GERMANATE STATIC AND IMPULSE PHOTOCONDUCTIVITY IN BI ₁₂ GeO ₂₀ | 834 | CALCIUM SULPHATE TEMPERATURE DEPENDENCE OF MAGNETIC SUSCEPTIBILITY OF CASO ₄ : DY PHOSPHORS | 936 |
| BISMUTH OXIDE ELECTRICAL PROPERTIES OF BI ₂ O ₃ LAYERS UNDER REDUCED PRESSURE | 452 | X-RAY INDUCED THERMOLUMINESCENCE IN CASO ₄ :SM PHOSPHORS | 562 |
| BISMUTH-MANGANESE FILMS EFFECT OF IN SITU ANNEALING ON ELECTRICAL PROPERTIES OF MnBi FILMS | 294 | CALCIUM SULPHIDE AN EMPIRICAL GENERALIZED RELATION ON DECAY OF CAS PHOSPHORS | 940 |
| BLISTERS STUDY OF BLISTERS FORMED DUE TO HELIUM ION BOMBARDMENT ON STAINLESS STEEL | 74 | X-RAY DIFFRACTION AND FLUORESCENCE SPECTRAL STUDIES ON (CAS,BAS): CU PHOSPHORS | 6 |
| BOND POLARIZABILITY BOND POLARIZABILITY DERIVATIVES AND FORCE CONSTANTS OF SOME XY ₃ PYRAMIDAL TYPE MOLECULES AND IONS | 302 | CALCIUM-48 LIFETIMES OF SINGLE-PARTICLE STATES NEAR CA-48 | 728 |
| BORAZINES, SUBSTITUTED INTERPRETATION OF THE SPECTRA OF SUBSTITUTED BORAZINES BY UREY-BRADLEY FORCE FIELD | 396 | CALCULABLE CAPACITOR DEVELOPMENT OF A HORIZONTAL MODEL OF CALCULABLE CROSS-CAPACITOR | 524 |
| BOSONS CALCULATION OF THERMODYNAMIC FUNCTIONS AND FLUCTUATIONS IN THE GROUND-STATE PARTICLE NUMBER FOR INTERACTING BOSONS | 760 | CALIFORNIUM-252 EFFECT OF ETCHING CONDITIONS ON TRACK REGISTRATION CHARACTERISTICS OF SODA LIME GLASS DETECTOR | 107 |
| BROAD LINE PMR BROAD LINE PROTON MAGNETIC RESONANCE INVESTIGATIONS ON SOLID SEMI-CARBAZIDE HYDROCHLORIDE | 997 | CAPACITOR(CALCULABLE) DEVELOPMENT OF A HORIZONTAL MODEL OF CALCULABLE CROSS-CAPACITOR | 524 |
| BROMINE SUBSTITUENT GROUP EFFECTS ON NQR FREQUENCY OF BR IN CERTAIN BROMOMETHANE DERIVATIVES | 631 | CAPACITORS EFFECT OF ION DIFFUSION FROM DOUBLE LAYER CAPACITORS ON RF CONDUCTION IN POLAR LIQUIDS | 669 |
| BROMOMETHANE DERIVATIVES SUBSTITUENT GROUP EFFECTS ON NQR FREQUENCY OF BR IN CERTAIN BROMOMETHANE DERIVATIVES | 631 | ELECTRICAL PROPERTIES OF BI ₂ O ₃ LAYERS UNDER REDUCED PRESSURE | 452 |
| BULK ETCH RATE EFFECT OF ETCHING CONDITIONS ON TRACK REGISTRATION CHARACTERISTICS OF SODA LIME GLASS DETECTOR | 107 | CARBON MICROWAVE ABSORBING MATERIAL USING RUBBER AND CARBON | 216 |
| BUTANOL EXCESS THERMODYNAMIC PROPERTIES AND INTERACTIONS IN BENZENE + TETRAHYDROFURAN | | CARBON ARC SELF-ABSORPTION-FREE FEI SPECTRAL LINES FOR TEMPERATURE MEASUREMENT IN THE DC | 1055 |

| | PAGE | | PAGE |
|---|------|---|------|
| CARBON ARC | 528 | CHLOROBENZALDEHYDE VAPOURS | 429 |
| CARBON DIOXIDE | | CHLOROBENZENE | |
| ESTIMATION OF THERMAL DIFFUSION FACTOR OF N ₂ -CO ₂ GAS MIXTURE FROM THERMAL DIFFUSION COLUMN DATA | 816 | DIELECTRIC STUDIES ON THE LIQUID AND SOLID PHASES OF CHLOROBENZENE CIS-DECALIN MIXTURES | 583 |
| CARBON DISULPHIDE | | CHLOROFLUORIDES | |
| PHONON DISPERSION IN LIQUID CARBON DISULPHIDE | 754 | CENTRIFUGAL DISTORTION CONSTANTS OF SOME PHOSPHORUS (V) CHLOROFLUORIDES | 912 |
| CARBONYL SULPHIDE | | CHLORONITROTOLUENES | |
| TEMPERATURE DEPENDENCE OF PRESSURE-BROADENED MICROWAVE LINE-WIDTHS OF SOME ROTATIONAL LINES OF CARBONYL SULPHIDE | 1023 | TEMPERATURE DEPENDENCE OF CL-35 NQR IN SOME CHLORONITROTOLUENES | 702 |
| CARBOXYLIC ACIDS | | CHOLESTERYL METHYL CARBONATE | |
| DIELECTRIC STUDIES ON CARBOXYLIC ACIDS: PART III--DIPOLAR THERMODYNAMIC EXCESS FUNCTIONS OF ACETIC, PROPIONIC AND BUTYRIC ACIDS IN NON-POLAR SOLVENTS | 890 | LOW ANGLE X-RAY DIFFRACTION STUDY OF LIQUID CRYSTAL: CHOLESTERYL METHYL CARBONATE | 127 |
| CATALYSTS | | CHROMIUM | |
| I-V MODEL FOR PHOTOLYSIS USING SI AS CATALYST | 654 | THE FATIGUE OF COPPER-CHROMIUM ALLOY | 383 |
| CATION DISTRIBUTION | | CIRCUIT PARAMETERS | |
| CATION DISTRIBUTION OF Mn ₂ FeO ₄ --A MOSSBAUER SPECTRAL STUDY | 747 | CIRCUIT PARAMETERS FOR A COMPLEX HELICAL SWS COMBINING RESULTS FOR SIMPLER CONFIGURATIONS | 141 |
| CATIONIC EFFECT | | CLAY MINERALS | |
| CATIONIC EFFECT ON THE INTRAMOLECULAR FORCES OF B(VI)O ₆ OCTAHEDRA IN ORDERED CUBIC PEROVSKITES A ₂ B(II)B(VI)O ₆ | 510 | DIELECTRIC PROPERTIES OF INDIAN CLAY MINERALS: BENTONITE AND PYROPHILLITE | 401 |
| CATIONIC MOBILITIES | | CLEAVAGES | |
| INFLUENCE OF DIELECTRIC CONSTANT ON CATIONIC MOBILITIES OF ELECTROLYTIC SOLUTION IN RELATION TO EIGEN MECHANISM | 1021 | STUDY OF SURFACE DISTORTION AROUND DYNAMIC IMPACTS ON CLEAVAGES OF SODIUM BROMIDE SINGLE CRYSTALS | 1008 |
| CENTRIFUGAL DISTORTION CONSTANTS | | CLOCK SYNCHRONIZATION | |
| CENTRIFUGAL DISTORTION CONSTANTS OF CYCLOBUTANE AND CYCLOBUTANE-D ₈ | 623 | RELATIVISTIC CORRECTION FOR THE NPL (INDIA)-PTB (WEST GERMANY) CLOCK SYNCHRONIZATION EXPERIMENTS | 601 |
| CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF C ₃ H ₆ , C ₃ D ₆ AND C ₃ F ₆ | 626 | CLOSE-COUPLING APPROACH | |
| CENTRIFUGAL DISTORTION CONSTANTS OF SOME PHOSPHORUS (V) CHLOROFLUORIDES | 912 | CLOSE-COUPLING APPROACH TO LOW ENERGY ELECTRON SCATTERING BY OXYGEN MOLECULE | 408 |
| MOLECULAR CONSTANTS OF ACETYLENES: PART II--CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF SILYLACETYLENE | 134 | CLUSTER-SIZE | |
| MOLECULAR CONSTANTS OF ACETYLENES: PART-I CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF GEH ₃ CCH AND GED ₃ CCH | 625 | STUDY OF THE CLUSTER-SIZE IN P-NUCLEON INTERACTION AT 70 GEV/C | 544 |
| CERAMIC SYSTEM (PELLET) | | COBALT SILICON HEXAFLUORIDE HEXAHYDRATE | |
| THERMAL EXPANSION OF THE CERAMIC SYSTEM PB(2-X)Ba(X)Li(0.5)Nb(1.5)O ₆ | 809 | TEMPERATURE AND FREQUENCY DEPENDENCE OF DIELECTRIC PROPERTIES OF COSIF _{6.6} H ₂ O AROUND ITS STRUCTURAL PHASE TRANSITION TEMPERATURE | 981 |
| CERIUM-144 | | COINCIDENCE DETECTOR SYSTEM | |
| COINCIDENCE STUDIES OF CE-144 WITH IMPROVED DETECTION SYSTEM | 180 | COINCIDENCE STUDIES OF CE-144 WITH IMPROVED DETECTION SYSTEM | 180 |
| CESIUM | | COINCIDENCE TECHNIQUES | |
| LIGHT ABSORPTION AND PHOTOEMISSION OF AG-O-CS PHOTOCATHODE | 138 | COINCIDENCE STUDIES OF CE-144 WITH IMPROVED DETECTION SYSTEM | 180 |
| CESIUM ACETATE | | COMET-TAIL SYSTEM | |
| RELATIVE PERMITTIVITY OF THE ACETATES OF POTASSIUM, LITHIUM, RUBIDIUM AND CESIUM | 1019 | ROTATIONAL ANALYSIS OF THE (2,0) BAND OF C-13O(+)-16 MOLECULE OF COMET-TAIL SYSTEM | 370 |
| CHARGE | | COMPLEXES | |
| CHARGE CHARACTERISTICS AND DIELECTRIC BEHAVIOUR OF PVF ₂ MAGNETOELECTRETS AT AUDIO AND RADIO FREQUENCY | 24 | EPR AND OPTICAL ABSORPTION STUDIES ON THE COORDINATION COMPOUNDS OF COPPER(II) WITH (3,5-DIMETHYL ISOXAZOLE) AND (3-METHYL, 5-PHENYL ISOXAZOLE) LIGANDS | 212 |
| CHARGE TRANSFER INTERACTION | | EPR STUDIES ON N,N'-ETHYLENEBIS(SALICYLALDIMINATO) COPPER(II)-THIOUREA AND N,N'-O-PHENYLENEBIS(SALICYLALDIMINATO) COPPER(II)-THIOUREA | |
| CHARGE TRANSFER INTERACTION OF SOME BIOMOLECULES WITH CHLORANIL | 504 | ESTIMATION OF GROUND STATE WAVEFUNCTIONS AND ESR PARAMETERS OF CU(2+) ION | 337 |
| CHELATES | | LATTICE ENERGIES OF SOME METAL COMPLEXES | |
| MAGNETO AND SPECTRAL STUDIES ON RARE EARTH CHELATES OF BETA-BENZIDINYL 2:4-DIHYDROXY PROPIOPHENONE | 973 | SPECTRAL STUDIES OF SOME URANYL COMPLEXES | 541 |
| CHLORANIL | | COMPLIANCE SCHEME | |
| CHARGE TRANSFER INTERACTION OF SOME BIOMOLECULES WITH CHLORANIL | 504 | FLEXIBILITY OF M-X BOND OF SOME TETRAHALIDES OF FOURTH GROUP METALS BY COMPLIANCE SCHEME | 711 |
| CHLORINE-35 | | COMPRESSIBILITY | |
| TEMPERATURE DEPENDENCE OF CL-35 NQR IN SOME CHLORONITROTOLUENES | 702 | COMPRESSIBILITY OF SIMPLE METALS ON HARRISON-POTENTIAL | 379 |
| CHLOROBENZALDEHYDE | | ISENTROPIC COMPRESSIBILITY BEHAVIOUR OF AMINES IN DILUTE AQUEOUS SOLUTIONS | |
| THE $\alpha_3\alpha''-\chi_1\chi'$ PHOSPHORESCENCE OF | | COMPUTER | |
| | | A COMPUTER STUDY OF THE COMPOSITION OF SOME AMORPHOUS ALLOYS: METALLIC GLASSES | 67 |

KEYWORD INDEX

PAGE

PAGE

| | | |
|---|------|------|
| COMPUTER SIMULATION OF TERNARY MISCELLANEOUS GAP IN THE TERNARY ALLOY PD(77.5)CU(6)SI(16.5) | | |
| CAPACITIVITY | 147 | |
| RELAXATION TIME AND ACTIVATION ENERGY FOR VISCOSITY FROM RADIOFREQUENCY CONDUCTIVITY MEASUREMENTS | 588 | |
| CONTINUOUS SLOWING DOWN APPROXIMATION RANGE CALCULATIONS OF CSDA RANGE AND PROJECTED RANGE OF MONOENERGETIC ELECTRONS | 461 | |
| COORDINATION COMPOUNDS | | |
| EPR AND OPTICAL ABSORPTION STUDIES ON THE COORDINATION COMPOUNDS OF COPPER(II) WITH (3,5-DIMETHYL ISOXAZOLE) AND (3-METHYL, 5- PHENYL ISOXAZOLE) LIGANDS | 212 | |
| COPPER | | |
| COMPUTER SIMULATION OF TERNARY MISCELLANEOUS GAP IN THE TERNARY ALLOY PD(77.5)CU(6)SI(16.5) | 147 | |
| ELECTROCHEMICALLY DEPOSITED SCHOTTKY CONTACTS ON N-EPIТАXIAL SILICON | 368 | |
| MOLECULAR ORBITAL ENERGIES AND X-RAY K- ABSORPTION SPECTRA OF COPPER IN METAL AND ITS OXIDES | 258 | |
| THE FATIGUE OF COPPER-CHROMIUM ALLOY | 383 | |
| THE PLASTIC DEFORMATION OF COPPER- BERYLLOUM ALLOY | 307 | |
| COPPER ACTIVATOR | | |
| X-RAY DIFFRACTION AND FLUORESCENCE SPECTRAL STUDIES ON (CAS,BAS): CU PHOSPHORS | 6 | |
| COPPER CHLORIDE | | |
| EMISSION SPECTRUM OF COPPER CHLORIDE MOLECULE | 200 | |
| COPPER COMPLEXES | | |
| EPR AND OPTICAL ABSORPTION STUDIES ON THE COORDINATION COMPOUNDS OF COPPER(II) WITH (3,5-DIMETHYL ISOXAZOLE) AND (3-METHYL, 5- PHENYL ISOXAZOLE) LIGANDS | 212 | |
| EPR STUDIES ON N,N'-ETHYLENEBIS (SALICYLALDIMINATO) COPPER(II)-THIOUREA AND N,N'-O-PHENYLENEBIS (SALICYLALDIMINATO) COPPER(II)-THIOUREA | 337 | |
| COPPER ION | | |
| ESTIMATION OF GROUND STATE WAVEFUNCTIONS AND ESR PARAMETERS OF CU(2+) ION | 541 | |
| COPPER OXIDES | | |
| MOLECULAR ORBITAL ENERGIES AND X-RAY K- ABSORPTION SPECTRA OF COPPER IN METAL AND ITS OXIDES | 258 | |
| COTTON | | |
| ESTIMATION OF SODIUM CONTENT OF COTTON FOR USE IN NEUTRON ACTIVATION DOSIMETRY | 130 | |
| COULOMB POTENTIAL | | |
| CALCULATION OF IONIC RADII OF ALKALI HALIDE CRYSTALS THROUGH SCREENED COULOMB POTENTIAL | 810 | |
| COULOMB-GLAUBER-OCHKUR APPROXIMATION | | |
| APPLICATIONS OF THE COULOMB-GLAUBER-OCHKUR APPROXIMATION TO N=2 AND N=3 ELECTRON IMPACT EXCITATION OF HEC(+) | 265 | |
| COUNT RATE INTEGRATOR | | |
| A COUNT RATE INTEGRATOR FOR USE WITH X-RAY SPECTROSCOPY WORK | 798 | |
| COUNTING RATE | | |
| PULSE HEIGHT ANALYZER FOR HIGH COUNTING RATE IN MOSSBAUER WORK | 999 | |
| COUPLING | | |
| STRONG COUPLING HARMONIC OSCILLATOR POTENTIAL WITH WEAKLY COUPLED LINEAR AND CUBIC ANHARMONICITIES | 878 | |
| CREEP | | |
| CREEP: DISLOCATION ACCELERATION | 999 | |
| CRITICAL CONSTANTS | | |
| EVALUATION OF CRITICAL CONSTANTS FROM THE INTERMOLECULAR FORCE CONSTANTS | 36 | |
| CRITICAL CURRENTS | | |
| EVALUATION OF CRITICAL CURRENTS AND VOLTAGES IN THE SINGLE INJECTION CURRENT IN AN INSULATOR | 812 | |
| CRITICAL VOLTAGES | | |
| EVALUATION OF CRITICAL CURRENTS AND VOLTAGES IN THE SINGLE INJECTION CURRENT IN AN INSULATOR | 812 | |
| CROSS-RELAXATION | | |
| ONE-SPIN CROSS-RELAXATION IN DILUTE NICKEL FLUOSILICATE | 606 | |
| CROTANANINUM IODIDE, N-METHYL | | |
| PRELIMINARY SINGLE CRYSTAL X-RAY STUDY OF N-METHYL CROTANANINUM IODIDE | 62 | |
| CRYSTAL FIELD STABILIZATION ENERGIES | | |
| CRYSTAL FIELD STABILIZATION ENERGIES OF SECOND-ROW TRANSITION-METAL OXIDES AND HALIDES | 360 | |
| CRYSTAL GROWTH | | |
| CRYSTAL GROWTH FROM BINARY IMMISCIBLE LIQUID SYSTEMS | 60 | |
| CRYSTAL GROWTH OF TRANSITION METAL OXIDES FROM POTASSIUM PYROSULPHATE FLUX | 304 | |
| CRYSTAL OSCILLATORS | | |
| STABILITY MEASUREMENTS IN TIME DOMAIN USING DUAL MIXER TIME DIFFERENCE SYSTEM | 220 | |
| CRYSTALLITES | | |
| DIFFRACTION INTENSITIES FROM A CLUSTER OF CURVED CRYSTALLITES WITH LAYER SHIFT | 58 | |
| LAYER DISORDERS IN CYLINDRICAL CRYSTALLITES AND THEIR EFFECTS ON DIFFRACTION INTENSITIES | 1 | |
| CRYSTALS | | |
| 90 DEGREE GROWTH TWINS IN FLOAT-ZONE SILICON CRYSTALS | 1005 | |
| ACCURATE MEASUREMENT OF TANGENTIAL VIBRATIONS OF QUARTZ CRYSTALS | 905 | |
| ANALYSIS OF CRYSTAL BINDING ENERGIES OF ALKALI HALIDES | 314 | |
| ANHARMONIC COEFFICIENTS OF ALKALI HALIDE CRYSTALS | 825 | |
| CALCULATION OF IONIC RADII OF ALKALI HALIDE CRYSTALS THROUGH SCREENED COULOMB POTENTIAL | 810 | |
| CALCULATION OF TRANSVERSE LONGITUDINAL ELECTRICAL SUSCEPTIBILITIES IN ADP-TYPE CRYSTALS | 573 | |
| COMPRESSION OF SODIUM CHLORIDE SINGLE CRYSTALS ALONG (001) DIRECTION | 953 | |
| CREATION AND ELIMINATION OF DISLOCATIONS IN FLOAT ZONE SILICON CRYSTALS | 642 | |
| CRYSTAL FIELD STABILIZATION ENERGIES OF SECOND-ROW TRANSITION-METAL OXIDES AND HALIDES | 360 | |
| DETERMINATION OF PREFERRED SITES OF FE(2+) IN THE LATTICES OF W-HEXAFLUORITE CRYSTAL OF Ba(2+)Fe2(2+)F16(3+)O27 FROM MOSSBAUER SPECTRAL STUDY | 945 | |
| DISLOCATION VELOCITIES IN ZINC SINGLE CRYSTALS | 236 | |
| EFFECT OF PH ON THE LIESEGANG RING FORMATION OF LEAD CARBONATE CRYSTALS | 81 | |
| EFFECT OF ACID CONCENTRATION AND TEMPERATURE ON THE SELECTIVE ETCH RATE AND ETCH PIT MORPHOLOGY OF <111> FACES OF CAF2 CRYSTALS | 609 | |
| ELASTIC CONSTANTS OF AGCl-AGBr MIXED CRYSTALS | 227 | |
| ELECTRON MICROSCOPY OF TAS2 SINGLE CRYSTALS USING WEAK BEAM TECHNIQUE ELECTRONIC POLARIZABILITIES AND RADII OF IONS IN RUTILE-TYPE CRYSTALS | 899 | |
| | | 1057 |

| PAGE | | PAGE |
|---|------|--|
| KINETICS OF GROWTH AND DISSOLUTION OF POTASSIUM DIHYDROGEN PHOSPHATE CRYSTALS IN AQUEOUS SOLUTIONS | | 821 |
| LOW ANGLE X-RAY DIFFRACTION STUDY OF LIQUID CRYSTAL: CHOLESTERYL METHYL CARBONATE | 479 | DEBYE TEMPERATURE |
| MAGNETIC PROPERTIES OF SI-DOPED YIG SINGLE CRYSTALS | 127 | DEBYE TEMPERATURE OF SOME SOLID SOLUTION SERIES WITH THE NaCl STRUCTURE |
| MECHANOLUMINESCENCE SPECTRA OF SODIUM BROMATE AND SODIUM CHLORATE CRYSTALS | 639 | ON THE DEBYE CHARACTERISTIC TEMPERATURE OF SOME CRYSTALS WITH NaCl-TYPE STRUCTURE |
| MICROTOMOGRAPHICAL STUDIES OF SECOND ORDER PRISM FACES OF SYNTHETIC QUARTZ CRYSTALS | 608 | 204 |
| MICROTOMOGRAPHICAL STUDIES OF N-FACES OF NATURAL ANALCITE CRYSTALS | 162 | DECALIN, CIS- |
| ON THE DEBYE CHARACTERISTIC TEMPERATURE OF SOME CRYSTALS WITH NaCl-TYPE STRUCTURE | 751 | DIELECTRIC STUDIES ON THE LIQUID AND SOLID PHASES OF CHLOROBENZENE CIS-DECALIN |
| ORIGIN OF GROWTH HILLOCKS ON THE (001) SURFACE OF LEAD MOLYBDATE CRYSTALS | 204 | 583 |
| PHOTOLYTIC BEHAVIOUR OF P AND P(+) SILICON CRYSTAL IN HF | 78 | DECAY |
| PIEZOELECTRIC INDUCED MECHANOLUMINESCENCE AND PHOTOLUMINESCENCE OF TRIPHENYLAMINE CRYSTALS | 468 | AN EMPIRICAL GENERALIZED RELATION ON DECAY OF CAS PHOSPHORS |
| POLARIZED ABSORPTION SPECTRA OF FLUORANTHENE IN PURE AND MIXED CRYSTALS | 743 | ISO THERMAL DECAY OF CaO:Eu:Tb PHOSPHORS |
| PRELIMINARY SINGLE CRYSTAL X-RAY STUDY OF N-METHYL CROTANANINIUM IODIDE | 191 | 207 |
| RELATIVISTIC ELECTRONIC STATE OF A ONE-DIMENSIONAL SYSTEM | 62 | DENSITY DISTRIBUTION |
| STATIC AND IMPULSE PHOTOCONDUCTIVITY IN Bi ₁₂ GeO ₂₀ | 214 | A COMPOSITE FLUID SPHERE WITH TWO DENSITY DISTRIBUTIONS IN GENERAL RELATIVITY |
| STUDY OF SOLID-LIQUID INTERFACE OF BISMUTH-ANTIMONY ALLOY SINGLE CRYSTALS | 834 | 874 |
| STUDY OF SURFACE DISTORTION AROUND DYNAMIC IMPACTS ON CLEAVAGES OF SODIUM BROMIDE SINGLE CRYSTALS | 658 | DEUTEROPHOSPHINIUM ION |
| VARIATION OF HARDNESS WITH LOAD FOR QUENCHED KBR SINGLE CRYSTALS | 1008 | EMISSION SPECTRA OF PH(+) AND PD(+) MOLECULES |
| CUBIC PEROVSKITES | 365 | DIAMAGNETIC ANISOTROPY |
| CATIONIC EFFECT ON THE INTRAMOLECULAR FORCES OF B(VI) ₆ OCTAHEDRA IN ORDERED CUBIC PEROVSKITES A ₂ B ₁₁ B(VI) ₆ | 510 | ANALYSIS OF THE DIAMAGNETIC ANISOTROPY OF THERMO- AND MAGNETO-ELECTRET STATES |
| CUPROUS HALIDES | 733 | 611 |
| PHONON MODE BEHAVIOUR IN MIXED CUPROUS HALIDES | 377 | DIAMINO-6-HYDROXY PYRIMIDINE, 2,4- |
| CURRENT (DC) GAIN | 10 | VIBRATIONAL SPECTRA OF BIOLOGICAL MOLECULES: 2,4-DIAMINO-6-HYDROXY PYRIMIDINE |
| ANNEALING EFFECTS ON DC CURRENT GAIN (β) OF SILICON PLANAR TRANSISTORS | 455 | 195 |
| CURRENT GAIN | 532 | DIATOMIC HALIDES |
| CALCULATION OF CURRENT GAIN OF PLANAR TRANSISTORS | 654 | CALCULATION OF MULTIPLET SPLITTINGS OF $A^2\pi$ STATES OF SOME DIATOMIC ALKALINE-EARTH HALIDES BY EXTENDED HUCKEL APPROACH |
| EFFECT OF MAGNETIC FIELD ON THE CURRENT GAIN OF JUNCTION TRANSISTORS | 623 | 324 |
| CURRENT-VOLTAGE CHARACTERISTICS | 626 | DIATOMIC MOLECULES |
| I-V CHARACTERISTICS OF SEMICONDUCTOR-INSULATOR-SEMICONDUCTOR SOLAR CELLS | 993 | INFLUENCE OF VIBRATION ROTATION INTERACTION ON FRANCK-CONDON FACTORS |
| I-V MODEL FOR PHOTOLYSIS USING Si AS CATALYST | 788 | 372 |
| CYCLOBUTANE | | DICHLOROANILINES |
| CENTRIFUGAL DISTORTION CONSTANTS OF CYCLOBUTANE AND CYCLOBUTANE-D ₈ | | VIBRATIONAL ASSIGNMENTS OF 2,3-, 2,5-, 2,6-, AND 3,5-DICHLOROANILINES |
| CYCLOPROPANE | | 223 |
| CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF C ₃ H ₆ , C ₃ D ₆ AND C ₃ F ₆ | | DICHLOROBENZAMIDE, 2,6- |
| CYCLOTRON RESONANCES | | TEMPERATURE VARIATION OF NQR FREQUENCIES IN 2,6-DICHLOROBENZAMIDE |
| AN INVESTIGATION OF THE ELECTRON CYCLOTRON RESONANCE LINE SHAPE IN TRANSIENT AFTERGLOW PLASMAS OF NEON AND ARGON | | 922 |
| CYLINDRICAL SURFACE WAVE | | VIBRATIONAL SPECTRUM OF 2,6-DICHLOROBENZAMIDE |
| AXIAL CYLINDRICAL SURFACE WAVE TRANSMISSION ACROSS A BEND | | 617 |
| DALGARNO SUM RULE | | DICHLOROBROMOBENZENE, 3,4- |
| ENERGY CALCULATION OF ANHARMONIC | | LASER RAMAN SPECTRUM OF 3,4-DICHLOROBROMOBENZENE |
| | | 143 |
| | | DIELECTRIC BEHAVIOUR |
| | | CHARGE CHARACTERISTICS AND DIELECTRIC BEHAVIOUR OF PVF ₂ MAGNETOELECTRETS AT AUDIO AND RADIO FREQUENCY |
| | | 24 |
| | | DIELECTRIC CONSTANT |
| | | DIELECTRIC BEHAVIOUR OF FERROELECTRIC AMMONIUM BISULPHATE POWDERS |
| | | 135 |
| | | ELECTRICAL CONDUCTIVITY AND DIELECTRIC CONSTANT OF SEMICONDUCTING GLASSES: As-Ge-Te AND Se-Ge-Te ALLOY SYSTEMS |
| | | 318 |
| | | INFLUENCE OF DIELECTRIC CONSTANT ON CATIONIC MOBILITIES OF ELECTROLYTIC SOLUTION IN RELATION TO EIGEN MECHANISM |
| | | 1021 |
| | | DIELECTRIC DISPERSION |
| | | DIELECTRIC DISPERSION IN CERTAIN BINARY MIXTURES AND SOLUTIONS |
| | | 374 |
| | | DIELECTRIC INVESTIGATIONS |
| | | DIELECTRIC INVESTIGATIONS IN MAGNETO-ELECTRET STATE OF POLYPROPYLENE |
| | | 845 |
| | | DIELECTRIC LOADING FACTOR |
| | | A HEURISTIC FORMULA FOR THE DIELECTRIC LOADING FACTOR OF A HELIX SUPPORTED BY DIELECTRIC CIRCULAR RODS |
| | | 63 |
| | | DIELECTRIC LOSS FACTOR |
| | | DIELECTRIC LOSS FACTOR IN MAGNETICALLY POLARIZED SILICONE RUBBER TUBULAR ELECTRETS BY TSDC |
| | | 923 |
| | | DIELECTRIC PERMITTIVITY |
| | | AFTER-EFFECT OF HEAT AND MAGNETIC FIELD ON THE DIELECTRIC PERMITTIVITY OF SULPHUR |
| | | 1002 |
| | | RELATIVE PERMITTIVITY OF THE ACETATES OF POTASSIUM, LITHIUM, RUBIDIUM AND CESIUM |
| | | 1019 |

KEYWORD INDEX

| | PAGE | | PAGE |
|--|------|--|------|
| DIELECTRIC PROPERTIES | | | |
| DIELECTRIC PROPERTIES OF INDIAN CLAY MINERALS: BENTONITE AND PYROPHILLITE | 401 | ELECTROCHEMICALLY DEPOSITED SCHOTTKY CONTACTS ON N-EPIТАXIAL SILICON | 368 |
| TEMPERATURE AND FREQUENCY DEPENDENCE OF DIELECTRIC PROPERTIES OF COSIF ₆ .6H ₂ O | | NEUTRON IRRADIATION EFFECTS ON | |
| AROUND ITS STRUCTURAL PHASE TRANSITION TEMPERATURE | | MAGNETOCURRENT IN SEMICONDUCTOR DIODES | 807 |
| DIELECTRIC RELAXATION | | DIPHENYLAMINE | |
| DIELECTRIC RELAXATION IN METHYLMERCAPTOACETATE AND | 981 | VISCOSITY BEHAVIOUR OF DIPHENYLAMINE-P- TOLUIDINE SYSTEM | |
| METHYLCYANOACETATE IN BENZENE SOLUTION | | DIPOLE MOMENT | 913 |
| DIELECTRIC RELAXATION STUDY OF INTERMOLECULAR ASSOCIATION THROUGH HYDROGEN BONDING OF P-HALOPHENOLS IN NON- POLAR SOLVENTS | 404 | DIELECTRIC RELAXATION TIME AND DIPOLE MOMENT OF SOME SUBSTITUTED ANILINES IN BENZENE SOLUTIONS | |
| ELECTRICAL CONDUCTION AND ISOTHERMAL DIELECTRIC RELAXATION IN PERSPEX | 784 | PREDICTION OF DIPOLE MOMENTS OF POLAR MOLECULES FROM THE RELATION BETWEEN TAU(SOLUTE) AND ETA(SOLVENT) | 110 |
| MECHANISM RESPONSIBLE FOR THE OBSERVED DIELECTRIC RELAXATIONS IN POLYVINYLDENE FLUORIDE | 387 | DIPOLE POLARIZABILITIES | |
| DIELECTRIC RELAXATION TIME | 183 | DIPOLE AND QUADRUPOLE POLARIZABILITIES AND SHIELDING FACTORS OF LI USING HYDRODYNAMIC ANALOGY | |
| DIELECTRIC RELAXATION TIME AND DIPOLE MOMENT OF SOME SUBSTITUTED ANILINES IN BENZENE SOLUTIONS | 110 | DIPOLE POMERON | |
| DIELECTRIC RODS | | DIPOLE POMERON AND NEUTRON-PROTON ELASTIC SCATTERING BETWEEN 70 AND 400 GEV/C | 678 |
| A HEURISTIC FORMULA FOR THE DIELECTRIC LOADING FACTOR OF A HELIX SUPPORTED BY DIELECTRIC CIRCULAR RODS | | DIRECT CURRENT ARC | |
| FIELD ANALYSIS OF A PRACTICAL HELICAL SLOW- WAVE STRUCTURE FOR TWTs | 63 | APPLICATION OF A WALL-STABILIZED DC ARC FOR SPECTRAL ANALYSIS OF SOLUTIONS | 47 |
| DIELECTRIC STUDIES | | DISLOCATION ACCELERATION | |
| DIELECTRIC STUDIES ON CARBOXYLIC ACIDS: PART III--DIPOLAR THERMODYNAMIC EXCESS FUNCTIONS OF ACETIC, PROPIONIC AND BUTYRIC ACIDS IN NON-POLAR SOLVENTS | 890 | CREEP; DISLOCATION ACCELERATION | 899 |
| DIELECTRIC STUDIES ON THE LIQUID AND SOLID PHASES OF CHLOROBENZENE CIS-DECALIN MIXTURES | 583 | DISLOCATION VELOCITY | |
| LIQUID STRUCTURE OF TERT-BUTYL ALCOHOL IN NONPOLAR SOLVENTS FROM DIELECTRIC STUDIES | 40 | DISLOCATION VELOCITIES IN ZINC SINGLE CRYSTALS | |
| DIELECTRIC TRANSIENT RESPONSE | | DISLOCATIONS | |
| DIELECTRIC TRANSIENT RESPONSE OF SOME BIOMOLECULES FOLLOWING ULTRAVIOLET RADIATION | 139 | BEHAVIOUR OF LIKE-DISLOCATIONS NEAR AN INTERFACE IN THE PRESENCE OF LATTICE FRICTIONAL FORCE--THREE AND FOUR DISLOCATIONS | |
| DIELECTRICS | | BEHAVIOUR OF SCREW-LIKE DISLOCATIONS NEAR AN INTERFACE IN THE PRESENCE OF LATTICE FRICTIONAL FORCES--THREE DISLOCATIONS | |
| RELAXATION TIME AND ACTIVATION ENERGY FOR VISCOSITY FROM RADIOFREQUENCY CONDUCTIVITY MEASUREMENTS | 588 | CREATION AND ELIMINATION OF DISLOCATIONS IN FLOAT ZONE SILICON CRYSTALS | 642 |
| DIFFRACTION INTENSITIES | | DISPERSION | |
| DIFFRACTION INTENSITIES FROM A CLUSTER OF CURVED CRYSTALLITES WITH LAYER SHIFT | 58 | DISPERSION EFFECTS IN THE FM MODE-LOCKED LASER | 342 |
| LAYER DISORDERS IN CYLINDRICAL CRYSTALLITES AND THEIR EFFECTS ON DIFFRACTION INTENSITIES | 1 | DISSOCIATION | |
| DIFFUSION, IONS | | IONIZATION AND DISSOCIATION OF PROPYLENE BY ELECTRON IMPACT | 31 |
| EFFECT OF ION DIFFUSION FROM DOUBLE LAYER CAPACITORS ON RF CONDUCTION IN POLAR LIQUIDS | 669 | DISSOCIATION ENERGY | |
| DIHYDROXY-2-METHYL PYRIMIDINE, 4,6- INFRARED SPECTRA OF THE BIOLOGICAL MOLECULES 4,6-DIHYDROXY-2-METHYL PYRIMIDINE | 1032 | RKRV POTENTIAL ENERGY CURVE AND DISSOCIATION ENERGY OF CAD | 818 |
| DIMERS | | DISSOLUTION KINETICS | |
| FORCE FIELD AND VIBRATIONAL AMPLITUDES OF ALKALI METAL HALIDE DIMERS USING ELECTRON GAS MODEL DATA | 540 | KINETICS OF GROWTH AND DISSOLUTION OF POTASSIUM DIHYDROGEN PHOSPHATE CRYSTALS IN AQUEOUS SOLUTIONS | 479 |
| DIMETHYL ACRYLAMIDE, N,N- | | DISTORTION, FERMI SURFACE | |
| FORCE FIELD STUDIES OF ALPHA, BETA- UNSATURATED AMIDES I: N,N-DIMETHYL ACRYLAMIDE | 94 | FERMI SURFACE DISTORTION IN SODIUM | 454 |
| DINITROPHENYL HYDRAZINE, 2,4- | | DOPANT | |
| PMR STUDY OF INTRAMOLECULAR MOTION IN SOLID 2,4-DINITROPHENYL HYDRAZINE | 1017 | PHOTOCONDUCTING PROPERTIES OF CDS:NA FILMS | 15 |
| DIODES | | DOPING | |
| DEPENDENCE OF THE C-V INDEX OF A HYPERABRUPT JUNCTION ON JUNCTION PARAMETERS | 84 | MAGNETIC PROPERTIES OF SI-DOPED YIG SINGLE CRYSTALS | 639 |
| | | DOSIMETRY | |
| | | ESTIMATION OF SODIUM CONTENT OF COTTON FOR USE IN NEUTRON ACTIVATION DOSIMETRY | 130 |
| | | DUAL MIXER TIME DIFFERENCE SYSTEM | |
| | | STABILITY MEASUREMENTS IN TIME DOMAIN USING DUAL MIXER TIME DIFFERENCE SYSTEM | 220 |
| | | DYNAMIC IMPACTS | |
| | | STUDY OF SURFACE DISTORTION AROUND DYNAMIC IMPACTS ON CLEAVAGES OF SODIUM BROMIDE SINGLE CRYSTALS | 1008 |
| | | DYSPROSIIUM ACTIVATOR | |
| | | TEMPERATURE DEPENDENCE OF MAGNETIC SUSCEPTIBILITY OF CASO ₄ BY PHOSPHORS | 936 |
| | | EFFECTIVE MASS | |
| | | TEMPERATURE DEPENDENCE OF EFFECTIVE MASS | |

| PAGE | PAGE | | |
|---|------|--|------|
| OF ELECTRONS AND HOLES AND INTRINSIC CONCENTRATION IN SILICON | 662 | CRYSTALS | 573 |
| EHT CALCULATION OF MULTIPLET SPLITTINGS OF $A^{\pi\pi}$ STATES OF SOME DIATOMIC ALKALINE-EARTH HALIDES BY EXTENDED HUCKEL APPROACH | 324 | ELECTROCHEMICAL DEPOSITION ELECTROCHEMICALLY DEPOSITED SCHOTTKY CONTACTS ON N-EPIТАXIAL SILICON | 368 |
| EIGEN MECHANISM INFLUENCE OF DIELECTRIC CONSTANT ON CATIONIC MOBILITIES OF ELECTROLYTIC SOLUTION IN RELATION TO EIGEN MECHANISM | 1021 | ELECTRODES NICKEL OXIDE ELECTRODE FOR PHOTOLYSIS | 28 |
| ELASTIC CONSTANTS ELASTIC CONSTANTS OF AGCl-AGBr MIXED CRYSTALS | 227 | ELECTROLYtic SOLUTIONS ACOUSTIC BEHAVIOUR OF ELECTROLYtic SOLUTIONS IN ALCOHOLS | 632 |
| ELASTIC CONSTANTS OF PHLOROGLUCINAL DIHYDRATE BY X-RAY DIFFUSE SCATTERING | 1012 | INFLUENCE OF DIELECTRIC CONSTANT ON CATIONIC MOBILITIES OF ELECTROLYTIC SOLUTION IN RELATION TO EIGEN MECHANISM | 1021 |
| ELASTIC SCATTERING ANALYSIS OF PROTON-PROTON ELASTIC SCATTERING AT HIGH ENERGIES | 884 | ELECTROMAGNETIC EFFECT ELECTRON-PLASMA MODEL FOR THE ELECTROMAGNETIC EFFECT AT METALLIC FRACTURE | 851 |
| DIPOLE POMERON AND NEUTRON-PROTON ELASTIC SCATTERING BETWEEN 70 AND 400 GEV/C | 678 | ELECTROMAGNETIC FIELDS REDUCTION AND SECOND QUANTIZATION OF GENERALIZED ELECTROMAGNETIC FIELDS FOR NON-ZERO MASS SYSTEM | 988 |
| ELECTRETS ANALYSIS OF THE DIAMAGNETIC ANISOTROPY OF THERMO- AND MAGNETO-ELECTRET STATES | 611 | ELECTROMAGNETIC FLOW-METER SENSOR DESIGN FOR AN ELECTROMAGNETIC FLOW-METER | 351 |
| CHARGE CHARACTERISTICS AND DIELECTRIC BEHAVIOUR OF PVF ₂ MAGNETOELECTRETS AT AUDIO AND RADIO FREQUENCY | 24 | ELECTRON CYCLOTRON RESONANCE AN INVESTIGATION OF THE ELECTRON CYCLOTRON RESONANCE LINE SHAPE IN TRANSIENT AFTERGLOW PLASMAS OF NEON AND ARGON | 993 |
| DIELECTRIC INVESTIGATIONS IN MAGNETO-ELECTRET STATE OF POLYPROPYLENE | 845 | ELECTRON GAS MODEL FORCE FIELD AND VIBRATIONAL AMPLITUDES OF ALKALI METAL HALIDE DIMERS USING ELECTRON GAS MODEL DATA | 540 |
| DIELECTRIC LOSS FACTOR IN MAGNETICALLY POLARIZED SILICONE RUBBER TUBULAR ELECTRETS BY TSDC | 923 | ELECTRON IMPACT IONIZATION AND DISSOCIATION OF PROPYLENE BY ELECTRON IMPACT | 31 |
| ELECTRET PROPERTIES OF ELECTRICALLY CHARGED SILICONE RUBBER | 957 | ELECTRON MICROSCOPY ELECTRON MICROSCOPY OF TAS ₂ SINGLE CRYSTALS USING WEAK BEAM TECHNIQUE | 899 |
| MECHANISM RESPONSIBLE FOR THE OBSERVED DIELECTRIC RELAXATIONS IN POLYVINYLIDENE FLUORIDE | 183 | ELECTRON MULTIPLIER PARALLEL PLATE ELECTRON MULTIPLIER USING SnO ₂ -Al ₂ O ₃ | 907 |
| THERMAL CURRENTS IN MAGNETICALLY POLARIZED SILASTIC TUBULAR ELECTRETS | 20 | ELECTRON SCATTERING CLOSE-COUPLING APPROACH TO LOW ENERGY ELECTRON SCATTERING BY OXYGEN MOLECULE | 408 |
| ELECTRICAL BREAKDOWN BREAKDOWN OF RBCL FILMS DUE TO APPLICATION OF ELECTRIC VOLTAGE PULSES | 231 | ELECTRON-IMPACT EXCITATION APPLICATIONS OF THE COULOMB-GLAUBER-OCHKUR APPROXIMATION TO N=2 AND N=3 ELECTRON IMPACT EXCITATION OF He(+) | 265 |
| ELECTRICAL CONDUCTION ELECTRICAL CONDUCTION AND ISOTHERMAL DIELECTRIC RELAXATION IN PERSPEX | 387 | ELECTRON-PLASMA MODEL ELECTRON-PLASMA MODEL FOR THE ELECTROMAGNETIC EFFECT AT METALLIC FRACTURE | 851 |
| ELECTRICAL CONDUCTION (RF) EFFECT OF ION DIFFUSION FROM DOUBLE LAYER CAPACITORS ON RF CONDUCTION IN POLAR LIQUIDS | 669 | ELECTRONIC ABSORPTION SPECTRA PI*-PI SYSTEMS IN THE QUARTZ ULTRAVIOLET | 568 |
| ELECTRICAL CONDUCTIVITY ELECTRICAL CONDUCTIVITY AND DIELECTRIC CONSTANT OF SEMICONDUCTING GLASSES: AS-GE-TE AND SE-GE-TE ALLOY SYSTEMS | 318 | ELECTRONIC ABSORPTION SPECTRA OF SOME DI- AND TRISUBSTITUTED ACETOPHENONES | 842 |
| ELECTRICAL CONDUCTIVITY AND THERMOELECTRIC POWER IN AS ₂ S ₃ GLASSES | 568 | ELECTRONIC POLARIZABILITIES ELECTRONIC POLARIZABILITIES AND RADII OF IONS IN RUTILE-TYPE CRYSTALS | 977 |
| FIELD-DEPENDENT ELECTRICAL CONDUCTIVITY OF INDIUM OXIDE FILMS | 842 | ELECTRONIC SIMULATION ELECTRONIC SIMULATION OF ACOUSTIC EMISSION | 311 |
| RADIO FREQUENCY CONDUCTIVITY OF OPALESCENT BINARY LIQUID MIXTURES | 977 | ELECTRONIC SPECTRA ELECTRONIC ABSORPTION SPECTRA AND HYDROGEN BONDING BEHAVIOUR OF ANILINE AND PHENETIDINES | 1026 |
| VARIATION OF ELECTRICAL CONDUCTIVITY OF FERRIC HYDROXIDE FILMS WITH TEMPERATURE | 1026 | ELECTRONIC STATE RELATIVISTIC ELECTRONIC STATE OF A ONE-DIMENSIONAL SYSTEM | 294 |
| ELECTRICAL CONDUCTIVITY (DC) AN ASSEMBLY FOR MEASURING THE DC CONDUCTIVITY OF ORGANIC SOLIDS | 294 | ELECTRONIC TRANSITIONS CALCULATION OF SPECTROSCOPIC CHARACTERISTICS OF SOME ACETOPHENONES USING PARISER-PARR-POLPLE SCF-CI APPROXIMATION | 839 |
| ELECTRICAL PROPERTIES EFFECT OF IN SITU ANNEALING ON ELECTRICAL PROPERTIES OF MnBi FILMS | 452 | ELECTRONS CALCULATIONS OF CSDA RANGE AND PROJECTED RANGE OF MONOENERGETIC ELECTRONS | 242 |
| EFFECT OF PHYSICAL AGING ON ELECTRICAL PROPERTIES OF POLYSTYRENE | 242 | EFFECT OF POLARIZED VELOCITY DISTRIBUTION | 369 |
| ELECTRICAL PROPERTIES OF Bi ₂ O ₃ LAYERS UNDER REDUCED PRESSURE | 452 | | 603 |
| ELECTRICAL PROPERTIES OF SINTERED SELENIUM POWDER COMPACTS | 242 | | 461 |
| ELECTRICAL PROPERTIES OF VACUUM-EVAPORATED PBS-PBO FILMS | 242 | | |
| ELECTRICAL SUSCEPTIBILITIES CALCULATION OF TRANSVERSE LONGITUDINAL ELECTRICAL SUSCEPTIBILITIES IN ADP-TYPE | 369 | | |

KEYWORD INDEX

PAGE

PAGE

| | | | |
|---|-----|--|------|
| OF ELECTRONS ON DOUBLE IONIZATION OF HE BY PROTON IMPACT | | LOOPS IN THE FACE OF RAYLEIGH AND LOGNORMAL FADING SIGNALS | 441 |
| SEMI-EMPIRICAL PI-ELECTRON CALCULATIONS ON SOME MONO SUBSTITUTED ACETOPHENONES | | FATIGUE | |
| TEMPERATURE DEPENDENCE OF EFFECTIVE MASS OF ELECTRONS AND HOLES AND INTRINSIC CONCENTRATION IN SILICON | | THE FATIGUE OF COPPER-CHROMIUM ALLOY | 383 |
| EMISSION SPECTRA | | FERMI SURFACE | |
| EMISSION SPECTRA OF PH(+) AND PD(+) MOLECULES | 176 | FERMI SURFACE DISTORTION IN SODIUM | 454 |
| EMISSION SPECTRUM OF COPPER CHLORIDE MOLECULE | 327 | FERRIC HYDROXIDE | |
| EMISSION SPECTRAL ANALYSIS | | VARIATION OF ELECTRICAL CONDUCTIVITY OF FERRIC HYDROXIDE FILMS WITH TEMPERATURE | 311 |
| SELF-ABSORPTION-FREE FEI SPECTRAL LINES FOR TEMPERATURE MEASUREMENT IN THE DC CARBON ARC | 662 | FERRITES | |
| EMULSIONS<NUCLEAR> | | CATION DISTRIBUTION OF MN ₂ FE _{0.4} --A MOSSBAUER SPECTRAL STUDY | 747 |
| STUDY OF THE CLUSTER-SIZE IN P-NUCLEON INTERACTION AT 70 GEV/C | 200 | DETERMINATION OF PREFERRED SITES OF FE(2+) | |
| ENERGY OF ANHARMONIC OSCILLATOR | | IN THE LATTICES OF W-HEXAFLUORITE CRYSTAL | |
| ENERGY CALCULATION OF ANHARMONIC OSCILLATOR BY DALGARNO SUM RULE | 528 | OF Ba(2+)Fe(2+)F ₁₆ (3+)O ₂₇ FROM MOSSBAUER SPECTRAL STUDY | 945 |
| ENTROPY | | TEMPERATURE DEPENDENCE OF INTERNAL FRICTION IN POLYCRYSTALLINE FERRITES | 933 |
| ENTROPY CONTRIBUTIONS IN DETERMINING THE RELATIVE STABILITIES OF POLYTYPES | 544 | FERROELECTRICS | |
| EPITAXIAL SILICON,N- | | DIELECTRIC BEHAVIOUR OF FERROELECTRIC AMMONIUM BISULPHATE POWDERS | 135 |
| ELECTROCHEMICALLY DEPOSITED SCHOTTKY CONTACTS ON N-EPITAXIAL SILICON | 821 | FERROIC CRYSTALS | |
| EPR | | AN ALTERNATIVE APPROACH FOR THE DESCRIPTION OF PHYSICAL PROPERTIES IN FERROIC SPECIES | 449 |
| EPR AND OPTICAL ABSORPTION STUDIES ON THE COORDINATION COMPOUNDS OF COPPER(II) WITH (3,5-DIMETHYL ISOXAZOLE) AND (3-METHYL, 5-PHENYL ISOXAZOLE) LIGANDS | 368 | FERROIC SPECIES | |
| EPR STUDIES ON N,N'-ETHYLENEBIS (SALICYLALDIMINATO) COPPER(II)-THIOUREA AND N,N'-O-PHENYLENEBIS (SALICYLALDIMINATO) COPPER(II)-THIOUREA | 212 | AN ALTERNATIVE APPROACH FOR THE DESCRIPTION OF PHYSICAL PROPERTIES IN FERROIC SPECIES | 449 |
| EPR STUDY OF MOLECULAR ORDER IN P-N-OCTYLOXY BENZYLIDENE-P-TOLUIDINE USING VAAC PROBE | 337 | FESHBACH-TYPE RESONANCE SCATTERING | |
| ESR | | APPLICATION OF GLAUBER APPROXIMATION TO FESHBACH-TYPE RESONANCE SCATTERING | 615 |
| ESTIMATION OF GROUND STATE WAVEFUNCTIONS AND ESR PARAMETERS OF CU(2+) ION | 541 | FIELD | |
| ETCH PIT MORPHOLOGY | | FIELD-DEPENDENT ELECTRICAL CONDUCTIVITY OF INDIUM OXIDE FILMS | 842 |
| EFFECT OF ACID CONCENTRATION AND TEMPERATURE ON THE SELECTIVE ETCH RATE AND ETCH PIT MORPHOLOGY OF (111) FACES OF CAF ₂ CRYSTALS | 609 | FIELD ANALYSIS | |
| ETCH RATE | | FIELD ANALYSIS OF A PRACTICAL HELICAL SLOW-WAVE STRUCTURE FOR TWTS | 64 |
| EFFECT OF ACID CONCENTRATION AND TEMPERATURE ON THE SELECTIVE ETCH RATE AND ETCH PIT MORPHOLOGY OF (111) FACES OF CAF ₂ CRYSTALS | 609 | FIELD TEMPERATURE | |
| ETCHING CONDITIONS | | EFFECT OF FIELD AND DETECTOR TEMPERATURES ON PHOTON COUNT STATISTICS | 348 |
| EFFECT OF ETCHING CONDITIONS ON TRACK REGISTRATION CHARACTERISTICS OF SODA LIME GLASS DETECTOR | 107 | FILTERS | |
| ETHYLENEBIS (SALICYLALDIMINATO)COPPER(II)-THIOUREA | | A BANDPASS FILTER USING SINGLE OPERATIONAL AMPLIFIER POLE | 636 |
| EPR STUDIES ON N,N'-ETHYLENEBIS (SALICYLALDIMINATO) COPPER(II)-THIOUREA AND N,N'-O-PHENYLENEBIS (SALICYLALDIMINATO) COPPER(II)-THIOUREA | 337 | REALIZATION OF ACTIVE BANDPASS FILTERS | 285 |
| ETHYLTHIONFORMATE | | FIREFBALLS | |
| STRUCTURE AND VIBRATIONAL SPECTRA OF ETHYLTHIONFORMATE | 926 | CHARACTERISTICS OF FIREBALLS PRODUCED IN 200 GEV/C PROTON-NUCLEUS INTERACTIONS | 593 |
| EUROPIUM ACTIVATOR | | FISSION(CALIFORNIUM-252) FRAGMENT DETECTOR | |
| ISOHERMAL DECAY OF CaO:Eu:TB PHOSPHORS | 207 | EFFECT OF ETCHING CONDITIONS ON TRACK REGISTRATION CHARACTERISTICS OF SODA LIME GLASS DETECTOR | 107 |
| EUTECTIC MIXTURE | | FLOAT ZONE SILICON | |
| VISCOSITY BEHAVIOUR OF DIPHENYLAMINE-P-TOLUIDINE SYSTEM | 913 | 90 DEGREE GROWTH TWINS IN FLOAT-ZONE SILICON CRYSTALS | 1005 |
| FADING,SIGNALS | | CREATION AND ELIMINATION OF DISLOCATIONS IN FLOAT ZONE SILICON CRYSTALS | 642 |
| ACQUISITION BEHAVIOUR OF PHASE LOCKED | | FLOW-METER | |
| | | SENSOR DESIGN FOR AN ELECTROMAGNETIC FLOW-METER | 351 |
| | | FLUID SPHERE,COMPOSITE | |
| | | A COMPOSITE FLUID SPHERE WITH TWO DENSITY DISTRIBUTIONS IN GENERAL RELATIVITY | 874 |
| | | FLUIDS | |
| | | AVERAGED POTENTIAL FOR COMPLEX POLAR FLUIDS | 91 |
| | | FLUORANTHENE | |
| | | POLARIZED ABSORPTION SPECTRA OF FLUORANTHENE IN PURE AND MIXED CRYSTALS | 191 |
| | | FLUORESCENCE STUDIES | |
| | | X-RAY DIFFRACTION AND FLUORESCENCE SPECTRAL STUDIES ON (CaS,BaS): Cu PHOSPHORS | |
| | | FLUX | |
| | | CRYSTAL GROWTH OF TRANSITION METAL OXIDES FROM POTASSIUM PYROSULPHATE FLUX | 304 |
| | | | 1061 |

| PAGE | | PAGE | |
|--|-----|--|-----|
| FM MODE-LOCKING DISPERSION EFFECTS IN THE FM MODE-LOCKED LASER | | CONSTANT OF SEMICONDUCTING GLASSES: AS-GE- TE AND SE-GE-TE ALLOY SYSTEMS | 318 |
| FORCE CONSTANTS BOND POLARIZABILITY DERIVATIVES AND FORCE CONSTANTS OF SOME XY ₃ PYRAMIDAL TYPE MOLECULES AND IONS | 342 | GERMYLACETYLENE (DEUTERATED) MOLECULAR CONSTANTS OF ACETYLENES: PART-I CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF GEH ₃ CCH AND GED ₃ CCH | 625 |
| EVALUATION OF CRITICAL CONSTANTS FROM THE INTERMOLECULAR FORCE CONSTANTS | 302 | GLASSES | |
| FORCE CONSTANTS OF SOME XY ₄ MOLECULES BY MODIFIED REDINGTON AND ALJIBURY METHOD | 36 | A COMPUTER STUDY OF THE COMPOSITION OF SOME AMORPHOUS ALLOYS: METALLIC GLASSES | 67 |
| FORCE FIELD | 305 | COMPUTER SIMULATION OF TERNARY MISCELLANEOUS GAP IN THE TERNARY ALLOY PD(77.5)Cu(6)Si(16.5) | 147 |
| FORCE FIELD AND VIBRATIONAL AMPLITUDES OF ALKALI METAL HALIDE DIMERS USING ELECTRON GAS MODEL DATA | 540 | EFFECT OF ETCHING CONDITIONS ON TRACK REGISTRATION CHARACTERISTICS OF SODA LIME GLASS DETECTOR | 107 |
| FORCE FIELD STUDIES OF ALPHA, BETA- UNSATURATED AMIDES I: N,N-DIMETHYL ACRYLAMIDE | 94 | ELECTRICAL CONDUCTIVITY AND DIELECTRIC CONSTANT OF SEMICONDUCTING GLASSES: AS-GE- TE AND SE-GE-TE ALLOY SYSTEMS | 318 |
| INTERPRETATION OF THE SPECTRA OF SUBSTITUTED BORAZINES BY UREY-BRADLEY FORCE FIELD | 396 | ELECTRICAL CONDUCTIVITY AND THERMOELECTRIC POWER IN AS ₂ S ₃ GLASSES | 568 |
| INTRAMOLECULAR FORCE FIELDS AND MEAN AMPLITUDES OF VIBRATION OF GROUP IV TETRABROMIDES | 715 | GLAUBER APPROXIMATION APPLICATION OF GLAUBER APPROXIMATION TO FESHBAKH-TYPE RESONANCE SCATTERING | 615 |
| FORM-FACTORS QUARK MODEL AND OFF-SHELL FORM-FACTORS OF NUCLEONS | 805 | GLOW PEAK CENTRES ASSOCIATED WITH 480 K THERMAL GLOW PEAK IN KBR:TL | 704 |
| FORMANT EXTRACTION SYSTEM FORMANT STRUCTURE OF BENGALI VOWELS AND SOME POSSIBLE USES OF A TRACKING LOOP | 692 | GRAPHITE MICROWAVE ABSORBING MATERIAL USING RUBBER AND CARBON | 216 |
| FORMANT EXTRACTION SYSTEM | | GREEN SPECTRAL REGION LUMINESCENCE OF ZNO PHOSPHOR IN GREEN AND RED REGIONS | 292 |
| FORMANT STRUCTURE FORMANT STRUCTURE OF BENGALI VOWELS AND SOME POSSIBLE USES OF A TRACKING LOOP | 692 | GREEN'S FUNCTION CALCULATIONS GREEN'S FUNCTION CALCULATIONS ON THE PHOTOELECTRON SPECTRA OF SOME SMALL HETEROATOMIC PI-ELECTRON SYSTEMS | 917 |
| FRANCK-CONDON FACTORS INFLUENCE OF VIBRATION ROTATION INTERACTION ON FRANCK-CONDON FACTORS | 372 | GROUND STATE WAVEFUNCTIONS ESTIMATION OF GROUND STATE WAVEFUNCTIONS AND ESR PARAMETERS OF CU(2+) ION | 541 |
| FREQUENCY MOMENTS FREQUENCY MOMENTS AND VISCOSITIES OF LIQUID RUBIDIUM | 538 | GROUND-STATE PARTICLE NUMBER CALCULATION OF THERMODYNAMIC FUNCTIONS AND FLUCTUATIONS IN THE GROUND-STATE PARTICLE | 760 |
| FRICITION TEMPERATURE DEPENDENCE OF INTERNAL FRICTION IN POLYCRYSTALLINE FERRITES | 933 | NUMBER FOR INTERACTING BOSONS | |
| FUNCTION GENERATOR A FUNCTION GENERATOR USING INTEGRATED CIRCUITS FOR MOSSBAUER EFFECT WORK | 298 | GROUP IV A AND GROUP V A HALOANIONS MOLECULAR CONSTANTS OF SOME HEXAHALOANIONS OF GROUP IV A AND GROUP V A BELONGING TO OH POINT GROUP | 516 |
| GALLIUM MEASUREMENTS OF SELF-DIFFUSION COEFFICIENTS IN HG AND GA BY A RADIOACTIVE TRACER TECHNIQUE | 87 | GROUP IV METALS FLEXIBILITY OF M-X BOND OF SOME TETRAHALIDES OF FOURTH GROUP METALS BY COMPLIANCE SCHEME | 54 |
| VIBRATIONAL ANALYSIS OF MONOMERIC TRIHALIDES OF GALLIUM AND INDIUM | 620 | GROUP IV TETRABROMIDES INTRAMOLECULAR FORCE FIELDS AND MEAN AMPLITUDES OF VIBRATION OF GROUP IV TETRABROMIDES | 715 |
| GALLIUM ARSENIDE CHARACTERIZATION OF DEEP TRAPPING CENTRES IN N-TYPE LIQUID PHASE EPITAXIAL GAAS BY HALL EFFECT | 483 | GROWTH HILLOCKS ORIGIN OF GROWTH HILLOCKS ON THE (001) SURFACE OF LEAD MOLYBDATE CRYSTALS | 78 |
| GAS LASERS LASER POWER FLUCTUATIONS DUE TO STRIATIONS IN A HE-NE LASER OPERATING AT 6328 ANGSTROMS | 419 | GROWTH KINETICS KINETICS OF GROWTH AND DISSOLUTION OF POTASSIUM DIHYDROGEN PHOSPHATE CRYSTALS IN AQUEOUS SOLUTIONS | 479 |
| GAS MIXTURES ESTIMATION OF THERMAL DIFFUSION FACTOR OF N ₂ -CO ₂ GAS MIXTURE FROM THERMAL DIFFUSION COLUMN DATA | 816 | GROWTH FILMS STRUCTURE AND GROWTH OF MNSE AND MNTE FILMS | 950 |
| THERMAL CONDUCTIVITIES OF BINARY GAS MIXTURES | 815 | GRUNEISEN CONSTANT EVALUATION OF GRUNEISEN CONSTANT OF KCL-KBR MIXED SYSTEM | 57 |
| GAUSSIAN NOISE ACQUISITION BEHAVIOUR OF PHASE LOCKED LOOPS IN THE FACE OF RAYLEIGH AND LOGNORMAL FADING SIGNALS | 441 | GRUNEISEN PARAMETER VOLUME DEPENDENCE OF POISSON'S RATIO AND THE GRUNEISEN PARAMETER IN ALKALI HALIDES | 553 |
| GERMANIUM ELECTRICAL CONDUCTIVITY AND DIELECTRIC | | HADRONIC DECAY WIDTHS LEPTONIC AND HADRONIC DECAY WIDTHS OF NEXT | |

KEYWORD INDEX

| PAGE | | PAGE | |
|---|-----|---|-----|
| QUARKONIUM (T) | | | |
| HADRONS | | | |
| MEAN CHARGED MULTIPLICITIES IN HIGH ENERGY HADRON-NUCLEUS COLLISIONS | 801 | HEAT TRANSMISSION | |
| HAGEMARK'S THEORY | 778 | HEAT TRANSMISSION THROUGH JUTE-FIBRE | |
| APPLICATION OF HAGEMARK'S THEORY TO MULTICOMPONENT SYSTEMS ZNTE: Li, O AND NA-IMPLANTED CDS | 778 | PACKINGS AT LOW TEMPERATURE | |
| HALIDES | 363 | HELICAL SLOW-WAVE STRUCTURES | 910 |
| ANALYSIS OF CRYSTAL BINDING ENERGIES OF ALKALI HALIDES | 314 | CIRCUIT PARAMETERS FOR A COMPLEX HELICAL | |
| ANHARMONIC COEFFICIENTS OF ALKALI HALIDE CRYSTALS | 825 | SWS COMBINING RESULTS FOR SIMPLER | |
| CALCULATION OF IONIC RADII OF ALKALI-HALIDE CRYSTALS THROUGH SCREENED COULOMB POTENTIAL | 810 | CONFIGURATIONS | 141 |
| CALCULATION OF MULTIPLET SPLITTINGS OF A^{π} STATES OF SOME DIATOMIC ALKALINE-EARTH HALIDES BY EXTENDED HUCKEL APPROACH | 324 | HELICAL STRUCTURES | |
| EVALUATION OF VAN DER WAALS COEFFICIENTS IN SILVER AND THALLIUM HALIDES | 549 | A HEURISTIC FORMULA FOR THE DIELECTRIC | |
| FLEXIBILITY OF M-X BOND OF SOME TETRAHALIDES OF FOURTH GROUP METALS BY COMPLIANCE SCHEME | 54 | LOADING FACTOR OF A HELIX SUPPORTED BY | |
| FORCE FIELD AND VIBRATIONAL AMPLITUDES OF ALKALI METAL HALIDE DIMERS USING ELECTRON GAS MODEL DATA | 540 | DIELECTRIC CIRCULAR RODS | 63 |
| FORCE FIELD AND VIBRATIONAL AMPLITUDES OF ALKALI METAL HALIDE DIMERS USING ELECTRON GAS MODEL DATA | 540 | FIELD ANALYSIS OF A PRACTICAL HELICAL SLOW-WAVE STRUCTURE FOR TWTS | 64 |
| PHONON MODE BEHAVIOUR IN MIXED CUPROUS HALIDES | 733 | HELUM | |
| RELATION BETWEEN MICROHARDNESS AND ATOMIC VIBRATION FREQUENCY IN ALKALI HALIDES | 362 | APPLICATIONS OF THE COULOMB-GLAUBER-OCHKUR APPROXIMATION TO N=2 AND N=3 ELECTRON IMPACT EXCITATION OF HE(+) | |
| VIBRATIONAL ANALYSIS OF MONOMERIC TRIHALIDES OF GALLIUM AND INDIUM | 620 | EFFECT OF POLARIZED VELOCITY DISTRIBUTION OF ELECTRONS ON DOUBLE IONIZATION OF HE BY PROTON IMPACT | 265 |
| VOLUME DEPENDENCE OF POISSON'S RATIO AND THE GRUNEISEN PARAMETER IN ALKALI HALIDES | 553 | LASER POWER FLUCTUATIONS DUE TO STRIATIONS IN A HE-NE LASER OPERATING AT 6328 ANGSTROMS | 176 |
| HALL EFFECT | | STUDY OF BLISTERS FORMED DUE TO HELIUM ION BOMBARDMENT ON STAINLESS STEEL | 419 |
| CHARACTERIZATION OF DEEP TRAPPING CENTRES IN N-TYPE LIQUID PHASE EPITAXIAL GaAs BY HALL EFFECT | 483 | HELUM-4 | 74 |
| HALOANIONS | | PHONON-ROTON EXCITATION IN SUPERFLUID HE-4 | 649 |
| MOLECULAR CONSTANTS OF SOME HEXAHALOANIONS OF GROUP IV A AND GROUP V A BELONGING TO OH POINT GROUP | 516 | HETEROATOMIC PI-ELECTRON SYSTEM | |
| HALOGEN METAL BOND | | GREEN'S FUNCTION CALCULATIONS ON THE PHOTOELECTRON SPECTRA OF SOME SMALL HETEROATOMIC PI-ELECTRON SYSTEMS | 917 |
| FLEXIBILITY OF M-X BOND OF SOME TETRAHALIDES OF FOURTH GROUP METALS BY COMPLIANCE SCHEME | 54 | HEURISTIC FORMULA | |
| HALOPHENOLS | | A HEURISTIC FORMULA FOR THE DIELECTRIC | |
| DIELECTRIC RELAXATION STUDY OF INTERMOLECULAR ASSOCIATION THROUGH HYDROGEN BONDING OF P-HALOPHENOLS IN NON-POLAR SOLVENTS | 784 | LOADING FACTOR OF A HELIX SUPPORTED BY | |
| HARD SPHERE LIQUIDS | | DIELECTRIC CIRCULAR RODS | 63 |
| SURFACE TENSION OF HARD SPHERE LIQUIDS WITH ATTRACTIVE INTERACTIONS AND ESTIMATION OF RAO'S ACOUSTICAL PARAMETER | 457 | HEXADEUTEROCYCLOPROPANE | |
| HARD SPHERE MOLECULES | | CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF C ₃ H ₆ , C ₃ D ₆ AND C ₃ F ₆ | 626 |
| QUANTUM CORRECTIONS TO THERMODYNAMIC PROPERTIES OF A MIXTURE OF HARD SPHERE AND SQUARE WELL MOLECULES | 868 | HEXAFLUOROCYCLOPROPANE | |
| HARMONIC GENERATION | | CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF C ₃ H ₆ , C ₃ D ₆ AND C ₃ F ₆ | 626 |
| INVESTIGATIONS ON THE SECOND HARMONIC GENERATION AT BREAKDOWN IN P-N JUNCTIONS | 682 | HEXAHALIDE ANIONS | |
| HARMONIC OSCILLATOR | | MOLECULAR DYNAMICS OF SOME OCTAHEDRAL HEXAHALIDE ANIONS | 857 |
| STRONG COUPLING HARMONIC OSCILLATOR POTENTIAL WITH WEAKLY COUPLED LINEAR AND CUBIC ANHARMONICITIES | 878 | HEXAHALO IONS | |
| HARRISON-POTENTIAL | | MOLECULAR CONSTANTS OF SOME OCTAHEDRAL HEXAHALO AND HEXAOXY IONS | 718 |
| COMPRESSIBILITY OF SIMPLE METALS ON HARRISON-POTENTIAL | 557 | HEXAOXO IONS | |
| HEAT OF ATOMIZATION | | MOLECULAR CONSTANTS OF SOME OCTAHEDRAL HEXAHALO AND HEXAOXY IONS | 718 |
| RELATIONSHIP BETWEEN POTENTIAL ENERGY CONSTANTS AND HEAT OF ATOMIZATION | 392 | HIGH ENERGIES | |
| | | ANALYSIS OF PROTON-PROTON ELASTIC SCATTERING AT HIGH ENERGIES | 884 |
| | | HIGH ENERGY COLLISIONS | |
| | | MEAN CHARGED MULTIPLICITIES IN HIGH ENERGY HADRON-NUCLEUS COLLISIONS | 778 |
| | | HIGH PRESSURES | |
| | | EFFECT OF HIGH PRESSURES ON THE HYDROGEN BOND SYSTEMS OF SOME ALCOHOLS | 132 |
| | | HIPPURIC ACID | |
| | | SECOND MOMENT OF SOLID HIPPURIC ACID BY WIDE-LINE NMR | 731 |
| | | HOLES | |
| | | TEMPERATURE DEPENDENCE OF EFFECTIVE MASS OF ELECTRONS AND HOLES AND INTRINSIC CONCENTRATION IN SILICON | 662 |
| | | HOLOGRAPHIC LENS ARRAY | |
| | | SIMPLE METHODS FOR GENERATION OF | |

| | | | |
|---|------|--|------|
| HOLOGRAPHIC LENS ARRAY | 635 | MULTICOMPONENT SYSTEMS ZNTE: Li, O AND Na-IMPLANTED CDS | 363 |
| HUCKEL APPROACH | | IMPULSE PHOTOCONDUCTIVITY | |
| CALCULATION OF MULTIPLET SPLITTINGS OF A'II STATES OF SOME DIATOMIC ALKALINE-EARTH HALIDES BY EXTENDED HUCKEL APPROACH | 324 | STATIC AND IMPULSE PHOTOCONDUCTIVITY IN BI12GeO20 | 834 |
| HYDROCARBONS | | INDIAN CLAY MINERALS | |
| RESONANCE ENERGIES OF NON-ALTERNANT HYDROCARBONS | 665 | DIELECTRIC PROPERTIES OF INDIAN CLAY MINERALS: BENTONITE AND PYROPHILLITE | 401 |
| HYDRODYNAMIC ANALOGY | | INDIUM | |
| DIPOLE AND QUADRUPOLE POLARIZABILITIES AND SHIELDING FACTORS OF Li USING HYDRODYNAMIC ANALOGY | 218 | VIBRATIONAL ANALYSIS OF MONOMERIC TRIHALIDES OF GALLIUM AND INDIUM | 620 |
| HYDRODYNAMICS | | INDIUM OXIDE | |
| HYDRODYNAMICS OF PERSISTENT MASS CURRENTS | 767 | FIELD-DEPENDENT ELECTRICAL CONDUCTIVITY OF INDIUM OXIDE FILMS | 842 |
| HYDROGEN | | INDIUM-ANTIMONY COMPOUND | |
| TEMPERATURE DEPENDENCE OF ROTATIONAL RELAXATION IN O- AND N- HYDROGEN | 970 | EXCITATION OF MAGNETOACOUSTIC WAVE BY ACOUSTIC WAVE IN InSB | 465 |
| HYDROGEN BOND | | INDUCTANCE | |
| EFFECT OF HIGH PRESSURES ON THE HYDROGEN BOND SYSTEMS OF SOME ALCOHOLS | 132 | SIMULATED INDUCTANCE USING OPERATIONAL AMPLIFIERS | 121 |
| STABILITY OF INTRAMOLECULAR HYDROGEN BOND OF 8-HYDROXY QUINOLINE IN DIFFERENT SOLVENTS: IR SPECTROSCOPIC STUDY | 1010 | INFRARED ABSORPTION SPECTRA | |
| HYDROGEN BONDING | | INFRARED ABSORPTION OF 2-AMINO-3-METHYL- AND 6-AMINO-2-METHYL-PYRIDINE | 930 |
| DIELECTRIC RELAXATION STUDY OF INTERMOLECULAR ASSOCIATION THROUGH HYDROGEN BONDING OF P-HALOPHENOLS IN NON-POLAR SOLVENTS | 784 | INFRARED ABSORPTION SPECTRA OF 2-AMINO-P-CRESOL AND 2-AMINO-4-CHLOROPHENOL | 281 |
| ELECTRONIC ABSORPTION SPECTRA AND HYDROGEN BONDING BEHAVIOUR OF ANILINE AND PHENETIDINES | 793 | INFRARED ABSORPTION SPECTRA OF 2,3,4-, 2,4,5- AND 2,4,6-TRICHLOROANILINE | 299 |
| HYDROGEN FLUORIDE | | INFRARED STUDIES ON SOME DI-SUBSTITUTED PYRIDINES | 928 |
| PHOTOLYTIC BEHAVIOUR OF P AND P(+) SILICON CRYSTAL IN HF | 468 | SPECTRAL STUDIES OF SOME URANYL COMPLEXES | 379 |
| HYDROGEN FLUORIDE ETCHANT | | VIBRATIONAL SPECTRA OF BIOLOGICAL MOLECULES: 2,4-DIAMINO-6-HYDROXY PYRIMIDINE | |
| EFFECT OF ETCHING CONDITIONS ON TRACK REGISTRATION CHARACTERISTICS OF SODA LIME GLASS DETECTOR | 107 | VIBRATIONAL SPECTRA OF P-METHOXY BENZONITRILE | 619 |
| HYDROGEN ION CONCENTRATION | | VIBRATIONAL SPECTRUM OF 2,6-DICHLOROBENZAMIDE | 617 |
| EFFECT OF PH ON THE LIESEGANG RING | | INFRARED SPECTRA | |
| FORMATION OF LEAD CARBONATE CRYSTALS | 81 | INFRARED SPECTRA OF THE BIOLOGICAL MOLECULES 4,6-DIHYDROXY-2-METHYL PYRIMIDINE | 1032 |
| HYDROGEN-BONDED LIQUIDS | | MAGNETO AND SPECTRAL STUDIES ON RARE EARTH CHELATES OF BETA-BENZIDINYL 2:4-DIHYDROXY PROPIOPHENONE | 973 |
| ESTIMATION OF LIMITING SOLID VOLUME OF POLAR SUBSTANCES: AN ANALYTICAL METHOD | 915 | STABILITY OF INTRAMOLECULAR HYDROGEN BOND OF 8-HYDROXY QUINOLINE IN DIFFERENT SOLVENTS: IR SPECTROSCOPIC STUDY | 1010 |
| HYDROXY QUINOLINE, 8- | | STRUCTURE AND VIBRATIONAL SPECTRA OF ETHYLTHIONFORMATE | 926 |
| STABILITY OF INTRAMOLECULAR HYDROGEN BOND OF 8-HYDROXY QUINOLINE IN DIFFERENT SOLVENTS: IR SPECTROSCOPIC STUDY | 1010 | INJECTION CURRENT | |
| HYPERRAPID JUNCTIONS | | EVALUATION OF CRITICAL CURRENTS AND VOLTAGES IN THE SINGLE INJECTION CURRENT IN AN INSULATOR | 812 |
| DEPENDENCE OF THE C-V INDEX OF A HYPERRAPID JUNCTION ON JUNCTION PARAMETERS | 84 | INJECTION SYNCHRONIZATION OSCILLATOR | |
| HYPREFINE STRUCTURES | | INJECTION SYNCHRONIZATION IN THE FACE OF HEAVY INTERFERENCE | 354 |
| ERRORS IN LINE WIDTH ANALYSIS DUE TO UNRESOLVED HYPERFINE STRUCTURES | 823 | INSULATOR | |
| ILLUMINATION | | EVALUATION OF CRITICAL CURRENTS AND VOLTAGES IN THE SINGLE INJECTION CURRENT IN AN INSULATOR | 812 |
| MEASUREMENT AND ANALYSIS OF SOLAR RADIATION AND ILLUMINATION FOR CLEAR SKY CONDITIONS | 413 | I-V CHARACTERISTICS OF SEMICONDUCTOR-INSULATOR-SEMICONDUCTOR SOLAR CELLS | 532 |
| IMMISCIBLE LIQUID SYSTEMS | | INTEGRATED CIRCUITS | |
| CRYSTAL GROWTH FROM BINARY IMMISCIBLE LIQUID SYSTEMS | 60 | A FUNCTION GENERATOR USING INTEGRATED CIRCUITS FOR MOSSBAUER EFFECT WORK | 298 |
| IMPACTS | | INTEGRATOR | |
| STUDY OF SURFACE DISTORTION AROUND DYNAMIC IMPACTS ON CLEAVAGES OF SODIUM BROMIDE SINGLE CRYSTALS | 1008 | A COUNT RATE INTEGRATOR FOR USE WITH X-RAY SPECTROSCOPY WORK | 798 |
| IMPEDANCE | | INTERACTION | |
| MOTIONAL IMPEDANCE OF A RIGID, CONDUCTING, DIAMAGNETIC PROLATE PLASMA SPHEROID | 1028 | CHARGE TRANSFER INTERACTION OF SOME BIOMOLECULES WITH CHLORANIL | 504 |
| IMPLANTATION, SODIUM | | INTERACTION POTENTIAL | |
| APPLICATION OF HAGEMARK'S THEORY TO | | CLOSE-COUPLING APPROACH TO LOW ENERGY ELECTRON SCATTERING BY OXYGEN MOLECULE | 408 |
| | | INTERACTIONS | |
| | | EXCESS THERMODYNAMIC PROPERTIES AND INTERACTIONS IN BENZENE + TETRAHYDROFURAN | |

KEYWORD INDEX

PAGE

| | | | |
|--|------|---|------|
| AND METHYL ETHYL KETONE + BUTANOL SOLUTIONS | 51 | SPECTRAL STUDY | F- F |
| SURFACE TENSION OF HARD SPHERE LIQUIDS WITH ATTRACTIVE INTERACTIONS AND ESTIMATION OF RAO'S ACOUSTICAL PARAMETER INTERFACE | 457 | EFFECT OF ION DIFFUSION FROM DOUBLE LAYER CAPACITORS ON RF CONDUCTION IN POLAR LIQUIDS, | 445 |
| BEHAVIOUR OF LIKE-DISLOCATIONS NEAR AN INTERFACE IN THE PRESENCE OF LATTICE FRICTIONAL FORCE--THREE AND FOUR DISLOCATIONS | | ELECTRONIC POLARIZABILITIES AND RADII OF IONS IN RUTILE-TYPE CRYSTALS | 459 |
| BEHAVIOUR OF SCREW-LIKE DISLOCATIONS NEAR AN INTERFACE IN THE PRESENCE OF LATTICE FRICTIONAL FORCES--THREE DISLOCATIONS | 829 | ESTIMATION OF GROUND STATE WAVEFUNCTIONS AND ESR PARAMETERS OF $Cu^{(2+)}$ ION | 461 |
| INTERFERENCE | 295 | MOLECULAR CONSTANTS OF SOME OCTAHEDRAL HEXAHALO AND HEXAOXY IONS | 541 |
| INJECTION SYNCHRONIZATION IN THE FACE OF HEAVY INTERFERENCE | | MOLECULAR DYNAMICS OF SOME OCTAHEDRAL HEXAHALIDE ANIONS | 718 |
| INTERFERENCE FILTER | 354 | PHONON-ROTON EXCITATION IN SUPERFLUID $He-4$ | 857 |
| VARIABLE FREQUENCY INTERFERENCE FILTER | 1004 | SLATER-CONDON AND SPIN-ORBIT PARAMETERS FOR $Tm^{(3+)}$ IN THULIUM SULPHATE, THULIUM ETHYL SULPHATE AND ZINC SULPHIDE | 849 |
| INTERMETALLIC COMPOUND | | STUDY OF BLISTERS FORMED DUE TO HELIUM ION BOMBARDMENT ON STAINLESS STEEL | 1015 |
| THERMAL EXPANSION OF V3SI AT Elevated TEMPERATURES | 56 | IRON | 74 |
| INTERMOLECULAR ASSOCIATION | | THERMOELECTRIC EFFECT IN Fe-Ni FILMS | 769 |
| DIELECTRIC RELAXATION STUDY OF INTERMOLECULAR ASSOCIATION THROUGH HYDROGEN BONDING OF P-HALOPHENOLS IN NON- POLAR SOLVENTS | 784 | IRON OXIDES | |
| INTERMOLECULAR FORCE CONSTANTS | | MOSSBAUER SPECTROSCOPIC STUDIES ON OXIDES AND HYDRATED OXIDES OF IRON | 473 |
| EVALUATION OF CRITICAL CONSTANTS FROM THE INTERMOLECULAR FORCE CONSTANTS | 36 | IRON(I) IODIDE | |
| INTERNAL FRICTION | | SELF-ABSORPTION-FREE FEI SPECTRAL LINES FOR TEMPERATURE MEASUREMENT IN THE DC CARBON ARC | 528 |
| TEMPERATURE DEPENDENCE OF INTERNAL FRICTION IN POLYCRYSTALLINE FERRITES | 933 | IRRADIATION HEAD | |
| INTRAMOLECULAR FORCE FIELD | | A NEW TYPE OF IRRADIATION HEAD FOR ACTIVATION ANALYSIS | 289 |
| INTRAMOLECULAR FORCE FIELDS AND MEAN AMPLITUDES OF VIBRATION OF GROUP IV TETRABROMIDES | 715 | ISENTROPIC COMPRESSIBILITY | |
| INTRAMOLECULAR FORCES | | ISENTROPIC COMPRESSIBILITY BEHAVIOUR OF AMINES IN DILUTE AQUEOUS SOLUTIONS | 864 |
| CATIONIC EFFECT ON THE INTRAMOLECULAR FORCES OF $B(VI)O_6$ OCTAHEDRA IN ORDERED CUBIC PEROVSKITES $A_2B(II)B(VI)O_6$ | 510 | ISOETHERMAL COMPRESSIBILITY | |
| INTRAMOLECULAR HYDROGEN BOND | | ISOETHERMAL COMPRESSIBILITY BEHAVIOUR OF AQUEOUS SOLUTIONS OF TERT-BUTYL ALCOHOL AT 25 DEGREE C | 499 |
| STABILITY OF INTRAMOLECULAR HYDROGEN BOND OF 8-HYDROXY QUINOLINE IN DIFFERENT SOLVENTS: IR SPECTROSCOPIC STUDY | 1010 | ISOTOPE SHIFT | |
| INTRAMOLECULAR MOTION | | ISOTOPe SHIFT IN UNCLASSIFIED AND SOME NEW LINES OF NEODYMIUM SPECTRA IN THE REGION 3930-6450 ANGSTROMS | 114 |
| PMR STUDY OF INTRAMOLECULAR MOTION IN SOLID 2,4-DINITROPHENYL HYDRAZINE | 1017 | ISOTOPIC INVARIANTS | |
| INTRINSIC CONCENTRATION | | ON THE ISOTOPIC INVARIANTS OF POLYATOMIC MOLECULES | 964 |
| TEMPERATURE DEPENDENCE OF EFFECTIVE MASS OF ELECTRONS AND HOLES AND INTRINSIC CONCENTRATION IN SILICON | 662 | ISOXAZOLE DERIVATIVES | |
| ION ACOUSTIC SOLITON | | EPR AND OPTICAL ABSORPTION STUDIES ON THE COORDINATION COMPOUNDS OF COPPER(II) WITH (3,5-DIMETHYL ISOXAZOLE) AND (3-METHYL, 5- PHENYL ISOXAZOLE) LIGANDS | 212 |
| REFLECTION AND TRANSMISSION OF ION ACOUSTIC SOLITON AT A PLASMA INTERFACE | 673 | JUNCTION PARAMETERS | |
| ION BOMBARDMENT | | DEPENDENCE OF THE C-V INDEX OF A HYPERABRUPT JUNCTION ON JUNCTION PARAMETERS | 84 |
| STUDY OF BLISTERS FORMED DUE TO HELIUM ION BOMBARDMENT ON STAINLESS STEEL | 74 | JUNCTION TRANSISTORS | |
| IONIC RADII | | EFFECT OF MAGNETIC FIELD ON THE CURRENT GAIN OF JUNCTION TRANSISTORS | 455 |
| CALCULATION OF IONIC RADII OF ALKALI HALIDE CRYSTALS THROUGH SCREENED COULOMB POTENTIAL | 810 | JUNCTIONS, P-N | |
| IONIZATION | | INVESTIGATIONS ON THE SECOND HARMONIC GENERATION AT BREAKDOWN IN P-N JUNCTIONS | 682 |
| EFFECT OF POLARIZED VELOCITY DISTRIBUTION OF ELECTRONS ON DOUBLE IONIZATION OF HE BY PROTON IMPACT | 176 | JUTE-FIBRE PACKINGS | |
| IONIZATION AND DISSOCIATION OF PROPYLENE BY ELECTRON IMPACT | 31 | HEAT TRANSMISSION THROUGH JUTE-FIBRE PACKINGS AT LOW TEMPERATURE | 910 |
| IONS | | K-ABSORPTION DISCONTINUITY | |
| APPLICATIONS OF THE COULOMB-GLAUBER-OCHKUR APPROXIMATION TO $N=2$ AND $N=3$ ELECTRON IMPACT EXCITATION OF $He^{(+)}$ | 265 | X-RAY K-ABSORPTION DISCONTINUITY IN CRYSTALLINE AND AMORPHOUS ARSENIC | 1029 |
| BOND POLARIZABILITY DERIVATIVES AND FORCE CONSTANTS OF SOME XY ₃ PYRAMIDAL TYPE MOLECULES AND IONS | 302 | KRYPTON | |
| DETERMINATION OF PREFERRED SITES OF $Fe^{(2+)}$ IN THE LATTICES OF W -HEXA FerrITE CRYSTAL OF $Ba^{(2+)}Fe^{(2+)}F^{(1-)}_16(C^{(3+)}_3)O_{27}$ FROM MOSSBAUER | | TRANSPORT PROPERTIES OF NEON, KRYPTON AND XENON ACCORDING TO L-J (12-6) POTENTIAL | 452 |

| PAGE | PAGE |
|---|------|
| UNRESOLVED HYPERFINE STRUCTURES | 823 |
| LINEAR POTENTIAL | 536 |
| LINEAR POTENTIAL AND PHONONS IN ALUMINIUM | 536 |
| LIGHT CRYSTALS | |
| LOW ANGLE X-RAY DIFFRACTION STUDY OF LIQUID CRYSTAL: CHOLESTERYL METHYL CARBOONATE | 127 |
| LIQUID METAL ALLOYS | |
| MOELWYN-HUGHES PARAMETER OF PURE LIQUIDS AND LIQUID METAL ALLOYS | 209 |
| LIQUID MIXTURES | |
| EXCESS THERMODYNAMIC PROPERTIES AND INTERACTIONS IN BENZENE + TETRAHYDROFURAN AND METHYL ETHYL KETONE + BUTANOL SOLUTIONS | 51 |
| MOLECULAR INTERACTION AND THERMODYNAMIC PROPERTIES OF TERNARY LIQUID MIXTURES | 254 |
| RADIO FREQUENCY CONDUCTIVITY OF OPALESCENT BINARY LIQUID MIXTURES | 977 |
| LIQUID PHASE EPITAXY | |
| CHARACTERIZATION OF DEEP TRAPPING CENTRES IN N-TYPE LIQUID PHASE EPITAXIAL GaAs BY HALL EFFECT | 483 |
| LIQUID STRUCTURE | |
| LIQUID STRUCTURE OF TERT-BUTYL ALCOHOL IN NONPOLAR SOLVENTS FROM DIELECTRIC STUDIES | 40 |
| LIQUIDS | |
| CRYSTAL GROWTH FROM BINARY IMMISCIBLE LIQUID SYSTEMS | 60 |
| DIELECTRIC DISPERSION IN CERTAIN BINARY MIXTURES AND SOLUTIONS | 374 |
| DIELECTRIC STUDIES ON THE LIQUID AND SOLID PHASES OF CHLOROBENZENE CIS-DECALIN MIXTURES | 583 |
| EFFECT OF ION DIFFUSION FROM DOUBLE LAYER CAPACITORS ON RF CONDUCTION IN POLAR LIQUIDS | 669 |
| ESTIMATION OF LIMITING SOLID VOLUME OF POLAR SUBSTANCES: AN ANALYTICAL METHOD | 915 |
| FREQUENCY MOMENTS AND VISCOSITIES OF LIQUID RUBIDIUM | 538 |
| LIQUID STRUCTURE OF TERT-BUTYL ALCOHOL IN NONPOLAR SOLVENTS FROM DIELECTRIC STUDIES | 40 |
| MICROWAVE CONDUCTIVITY AND RELAXATION TIME OF POLAR LIQUIDS | 629 |
| MOELWYN-HUGHES PARAMETER OF PURE LIQUIDS AND LIQUID METAL ALLOYS | 209 |
| ON SARMA AND RAO'S RELATION FOR TAU FOR BINARY MIXTURES OF POLAR LIQUIDS | 535 |
| PHONON DISPERSION IN LIQUID CARBON DISULPHIDE | 754 |
| RELAXATION TIME AND ACTIVATION ENERGY FOR VISCOSITY FROM RADIOFREQUENCY CONDUCTIVITY MEASUREMENTS | 588 |
| SURFACE TENSION OF HARD SPHERE LIQUIDS WITH ATTRACTIVE INTERACTIONS AND ESTIMATION OF RAO'S ACOUSTICAL PARAMETER | 457 |
| LITHIUM | |
| APPLICATION OF HAGEMARK'S THEORY TO MULTICOMPONENT SYSTEMS ZNTE: Li, O AND Na-IMPLANTED CDS | 363 |
| DIPOLE AND QUADRUPOLE POLARIZABILITIES AND SHIELDING FACTORS OF Li USING HYDRODYNAMIC ANALOGY | 218 |
| LITHIUM ACETATE | |
| RELATIVE PERMITTIVITY OF THE ACETATES OF POTASSIUM, LITHIUM, RUBIDIUM AND CESIUM LOAD | 1019 |
| VARIATION OF HARDNESS WITH LOAD FOR QUENCHED KBR SINGLE CRYSTALS | 365 |
| LOGNORMAL FADING SIGNALS | |
| ACQUISITION BEHAVIOUR OF PHASE LOCKED LOOPS IN THE FACE OF RAYLEIGH AND LOGNORMAL FADING SIGNALS | 441 |
| ACQUISITION BEHAVIOUR OF PHASE LOCKED LOOPS | |
| LANTHANIDE CHLORIDE MAGNETO AND SPECTRAL STUDIES ON RARE EARTH CHELATES OF BETA-BENZIDINYL 2:4-DIHYDROXY PROPIOPHENONE | 973 |
| LASERS DISPERSION EFFECTS IN THE FM MODE-LOCKED LASER | 342 |
| LASER POWER FLUCTUATIONS DUE TO STRIATIONS IN A HE-NE LASER OPERATING AT 6328 ANGSTROMS | 419 |
| LASER RAMAN SPECTRUM OF 3,4-DICHLOROBROMOBENZENE | 143 |
| LATTICE DISTORTION ENERGY SPECTRA | |
| LATTICE DISTORTION SPECTRUM OF EVAPORATED BISMUTH FILMS | 159 |
| LATTICE ENERGY LATTICE ENERGIES OF SOME METAL COMPLEXES | |
| LATTICE FRICTIONAL FORCE BEHAVIOUR OF LIKE-DISLOCATIONS NEAR AN INTERFACE IN THE PRESENCE OF LATTICE FRICTIONAL FORCE--THREE AND FOUR DISLOCATIONS | 711 |
| BEHAVIOUR OF SCREW-LIKE DISLOCATIONS NEAR AN INTERFACE IN THE PRESENCE OF LATTICE FRICTIONAL FORCES--THREE DISLOCATIONS | |
| LATTICE VIBRATION MODES | |
| LATTICE VIBRATION MODES IN KHF ₂ | 738 |
| LATTICE VIBRATION MODES IN CDS | 129 |
| LATTICES DETERMINATION OF PREFERRED SITES OF Fe(2+) IN THE LATTICES OF W-HEXAFLUORITE CRYSTAL OF Ba(2+)Fe2(2+)F16(3+)O27 FROM MOSSBAUER SPECTRAL STUDY | 945 |
| LAYER DISORDERS | |
| LAYER DISORDERS IN CYLINDRICAL CRYSTALLITES AND THEIR EFFECTS ON DIFFRACTION INTENSITIES | 1 |
| LAYER SHIFT DIFFRACTION INTENSITIES FROM A CLUSTER OF CURVED CRYSTALLITES WITH LAYER SHIFT | 58 |
| LEAD CARBONATE EFFECT OF PH ON THE LIESEGANG RING FORMATION OF LEAD CARBONATE CRYSTALS | 81 |
| LEAD MOLYBDATE ORIGIN OF GROWTH HILLOCKS ON THE (001) SURFACE OF LEAD MOLYBDATE CRYSTALS | 78 |
| LEAD OXIDE ELECTRICAL PROPERTIES OF VACUUM-EVAPORATED PBS-PBO FILMS | 369 |
| LEAD SULPHIDE ELECTRICAL PROPERTIES OF VACUUM-EVAPORATED PBS-PBO FILMS | 369 |
| LENNARD-JONES POTENTIAL TRANSPORT PROPERTIES OF NEON, KRYPTON AND XENON ACCORDING TO L-J (12-6) POTENTIAL | |
| LENS ARRAY SIMPLE METHODS FOR GENERATION OF HOLOGRAPHIC LENS ARRAY | |
| LEPTONIC DECAY WIDTHS LEPTONIC AND HADRONIC DECAY WIDTHS OF NEXT QUARKONIUM (TT) | 801 |
| LIESEGANG RING EFFECT OF PH ON THE LIESEGANG RING FORMATION OF LEAD CARBONATE CRYSTALS | 81 |
| LIFETIMES LIFETIMES OF SINGLE-PARTICLE STATES NEAR CA-48 | 728 |
| LIGANDS EPR AND OPTICAL ABSORPTION STUDIES ON THE COORDINATION COMPOUNDS OF COPPER(II) WITH (3,5-DIMETHYL ISOXAZOLE) AND (3-METHYL, 5-PHENYL ISOXAZOLE) LIGANDS | 212 |
| LIGHT ABSORPTION LIGHT ABSORPTION AND PHOTOEMISSION OF AG-O-CS PHOTOCATHODE | 138 |
| LINE WIDTH ANALYSIS ERRORS IN LINE WIDTH ANALYSIS DUE TO | |

KEYWORD INDEX

PAGE

PAGE

| | | | |
|---|-----|--|------|
| LOOPS IN THE FACE OF RAYLEIGH AND LOGNORMAL FADING SIGNALS | 441 | MATRIX CORRECTIONS A METHOD OF ABSOLUTE SPECTROSCOPIC ANALYSIS USING X-RAY FLUORESCENCE TECHNIQUE | |
| LOW ENERGY ELECTRON SCATTERING | | MEAN AMPLITUDE INTRAMOLECULAR FORCE FIELDS AND MEAN AMPLITUDES OF VIBRATION OF GROUP IV TETRABROMIDES | 437 |
| CLOSE-COUPLING APPROACH TO LOW ENERGY ELECTRON SCATTERING BY OXYGEN MOLECULE | 408 | MEAN CHARGED MULTIPLICITIES MEAN CHARGED MULTIPLICITIES IN HIGH ENERGY HADRON-NUCLEUS COLLISIONS | 715 |
| LOW TEMPERATURE | | MECHANOLUMINESCENCE MECHANOLUMINESCENCE SPECTRA OF SODIUM BROMATE AND SODIUM CHLORATE CRYSTALS PIEZO-INDUCED MECHANOLUMINESCENCE AND PHOTOLUMINESCENCE OF TRIPHENYLAMINE CRYSTALS | 778 |
| HEAT TRANSMISSION THROUGH JUTE-FIBRE PACKINGS AT LOW TEMPERATURE | 910 | MERCURY MEASUREMENTS OF SELF-DIFFUSION COEFFICIENTS IN HG AND GA BY A RADIOACTIVE TRACER TECHNIQUE | 743 |
| LUMINESCENCE | | METAL COMPLEXES LATTICE ENERGIES OF SOME METAL COMPLEXES | 87 |
| LUMINESCENCE OF ZNO PHOSPHOR IN GREEN AND RED REGIONS | 292 | METAL HALIDES CRYSTAL FIELD STABILIZATION ENERGIES OF SECOND-ROW TRANSITION-METAL OXIDES AND HALIDES | 711 |
| LUMINESCENCE CENTRES | | FORCE FIELD AND VIBRATIONAL AMPLITUDES OF ALKALI METAL HALIDE DIMERS USING ELECTRON GAS MODEL DATA | 360 |
| CENTRES ASSOCIATED WITH 480 K THERMAL GLOW PEAK IN KBR:TL | 704 | METAL OXIDES CRYSTAL FIELD STABILIZATION ENERGIES OF SECOND-ROW TRANSITION-METAL OXIDES AND HALIDES | 540 |
| MAGIC NUCLEI REGION | | CRYSTAL GROWTH OF TRANSITION METAL OXIDES FROM POTASSIUM PYROSULPHATE FLUX | 360 |
| LIFETIMES OF SINGLE-PARTICLE STATES NEAR CA-48 | 728 | METALLIC FRACTURE ELECTRON-PLASMA MODEL FOR THE ELECTROMAGNETIC EFFECT AT METALLIC FRACTURE | 304 |
| MAGNETIC FIELD | | METALLIC GLASSES A COMPUTER STUDY OF THE COMPOSITION OF SOME AMORPHOUS ALLOYS: METALLIC GLASSES | 851 |
| EFFECT OF MAGNETIC FIELD ON THE CURRENT GAIN OF JUNCTION TRANSISTORS | 455 | COMPUTER SIMULATION OF TERNARY MISCELLANEOUS GAP IN THE TERNARY ALLOY PD(77.5)CU(6)SI(16.5) | 67 |
| SPARKING POTENTIALS IN LONGITUDINAL MAGNETIC FIELDS | 725 | METALS COMPRESSIBILITY OF SIMPLE METALS ON HARRISON-POTENTIAL | 147 |
| MAGNETIC POLARIZATION | | FLEXIBILITY OF M-X BOND OF SOME TETRAHALIDES OF FOURTH GROUP METALS BY COMPLIANCE SCHEME | 557 |
| OPTICAL STUDY OF MAGNETIC POLARIZATION IN POLYPROPYLENE | 167 | MOLECULAR ORBITAL ENERGIES AND X-RAY K-ABSORPTION SPECTRA OF COPPER IN METAL AND ITS OXIDES | 54 |
| MAGNETIC PROPERTIES | | SUPERCONDUCTIVITY IN CERTAIN METALS | 258 |
| MAGNETIC PROPERTIES OF SI-DOPED YIG SINGLE CRYSTALS | 639 | METHOXY BENZONITRILES VIBRATIONAL SPECTRA OF P-METHOXY BENZONITRILE | 489 |
| MAGNETIC STUDIES | | METHYL CROTANANINIUM IODIDE, N- PRELIMINARY SINGLE CRYSTAL X-RAY STUDY OF N-METHYL CROTANANINIUM IODIDE | 619 |
| MAGNETO AND SPECTRAL STUDIES ON RARE EARTH CHELATES OF BETA-BENZIDINYL 2:4-DIHYDROXY PROPIOPHENONE | 973 | METHYL ETHYL KETONE EXCESS THERMODYNAMIC PROPERTIES AND INTERACTIONS IN BENZENE + TETRAHYDROFURAN AND METHYL ETHYL KETONE + BUTANOL SOLUTIONS | 62 |
| MAGNETIC SUSCEPTIBILITY | | METHYLCYANOACETATE DIELECTRIC RELAXATION IN METHYL MERCAPTOACETATE AND METHYLCYANOACETATE IN BENZENE SOLUTION | 51 |
| TEMPERATURE DEPENDENCE OF MAGNETIC SUSCEPTIBILITY OF CASO4:DY PHOSPHORS | 936 | METHYLDIFLUOROBORON ON THE SYMMETRY GROUP OF NON-RIGID MOLECULE BF2CH3 | 404 |
| MAGNETO-ELECTRETS | | | 713 |
| ANALYSIS OF THE DIAMAGNETIC ANISOTROPY OF THERMO- AND MAGNETO-ELECTRET STATES | 611 | | 1067 |
| CHARGE CHARACTERISTICS AND DIELECTRIC BEHAVIOUR OF PVF2 MAGNETOELECTRETS AT AUDIO AND RADIO FREQUENCY | 24 | | |
| DIELECTRIC INVESTIGATIONS IN MAGNETO-ELECTRET STATE OF POLYPROPYLENE | 845 | | |
| DIELECTRIC LOSS FACTOR IN MAGNETICALLY POLARIZED SILICONE RUBBER TUBULAR ELECTRETS BY TSDC | 923 | | |
| THERMAL CURRENTS IN MAGNETICALLY POLARIZED SILASTIC TUBULAR ELECTRETS | 20 | | |
| MAGNETOACOUSTIC WAVES | | | |
| EXCITATION OF MAGNETOACOUSTIC WAVE BY ACOUSTIC WAVE IN InSB | 465 | | |
| MAGNETOCURRENT | | | |
| NEUTRON IRRADIATION EFFECTS ON MAGNETOCURRENT IN SEMICONDUCTOR DIODES | 807 | | |
| MANGANESE | | | |
| THERMODYNAMICS OF MANGANESE-BEARING BINARY SUBSTITUTIONAL SOLUTIONS | 494 | | |
| MANGANESE ACTIVATOR | | | |
| PHOTODIELECTRIC EFFECT IN SRS:MN:Zr PHOSPHORS | 707 | | |
| MANGANESE FERRITE | | | |
| CATION DISTRIBUTION OF Mn2FeO4--A MOSSBAUER SPECTRAL STUDY | 747 | | |
| MANGANESE SELENIDE | | | |
| STRUCTURE AND GROWTH OF MNSe AND MHTe FILMS | 950 | | |
| MANGANESE TELLURIDE | | | |
| STRUCTURE AND GROWTH OF MNSe AND MHTe FILMS | 950 | | |
| MANGANESE-BISMUTH FILMS | | | |
| EFFECT OF IN SITU ANNEALING ON ELECTRICAL PROPERTIES OF MNBi FILMS | 294 | | |
| MASSIVE SPHERES | | | |
| MASSIVE SPHERES: SOME GENERAL CONSIDERATIONS AND APPLICATIONS | 171 | | |

| | PAGE |
|---|------|
| METHYLMERCAPTOACETATE DIELECTRIC RELAXATION IN METHYLMERCAPTOACETATE AND METHYL CYANODACETATE IN BENZENE SOLUTION | 404 |
| MICROHARDNESS RELATION BETWEEN MICROHARDNESS AND ATOMIC VIBRATION FREQUENCY IN ALKALI HALIDES | 362 |
| MICROTOPOGRAPHICAL STUDIES MICROTOPOGRAPHICAL STUDIES OF SECOND ORDER PRISM FACES OF SYNTHETIC QUARTZ CRYSTALS | 162 |
| MICROTOPOGRAPHICAL STUDIES OF N-FACES OF NATURAL ANALCITE CRYSTALS | 751 |
| MICROWAVE ABSORBING MATERIAL MICROWAVE ABSORBING MATERIAL USING RUBBER AND CARBON | 216 |
| MICROWAVE CONDUCTIVITY MICROWAVE CONDUCTIVITY AND RELAXATION TIME OF POLAR LIQUIDS | 629 |
| MICROWAVE LINE-WIDTH A NEW APPROXIMATION UNDER THE PERTURBATION THEORY FOR MICROWAVE LINE-WIDTH CALCULATION AND THE QUADRUPOLE MOMENT OF BENZENE | 248 |
| TEMPERATURE DEPENDENCE OF PRESSURE- BROADENED MICROWAVE LINE-WIDTHS OF SOME ROTATIONAL LINES OF CARBONYL SULPHIDE | 1023 |
| MICROWAVE SCANNING TECHNIQUE STUDY OF PARAMETERS OF ARGON PLASMA BY MICROWAVE SCANNING TECHNIQUE | 271 |
| MISCIBILITY GAP COMPUTER SIMULATION OF TERNARY MISCIBILITY GAP IN THE TERNARY ALLOY PD(77.5)Cu(6)Si(16.5) | 147 |
| MOBILITIES INFLUENCE OF DIELECTRIC CONSTANT ON CATIONIC MOBILITIES OF ELECTROLYTIC SOLUTION IN RELATION TO EIGEN MECHANISM | 1021 |
| MODE-LOCKED LASERS DISPERSION EFFECTS IN THE FM MODE-LOCKED LASER | 342 |
| MOELWYN-HUGHES PARAMETER MOELWYN-HUGHES PARAMETER OF PURE LIQUIDS AND LIQUID METAL ALLOYS | 209 |
| MOLECULAR CONSTANTS MOLECULAR CONSTANTS AND VIBRATIONAL AMPLITUDES OF SOME TETRAHEDRAL SYSTEMS | 722 |
| MOLECULAR CONSTANTS OF ACETYLENES: PART II-- CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF SILYLACETYLENE | 134 |
| MOLECULAR CONSTANTS OF ACETYLENES: PART-I CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF GEH ₃ CCH AND GED ₃ CCH | 625 |
| MOLECULAR CONSTANTS OF SOME HEXAHALOANIONS OF GROUP IV A AND GROUP V A BELONGING TO OH ⁻ POINT GROUP | 516 |
| MOLECULAR CONSTANTS OF SOME OCTAHEDRAL HEXAHALO AND HEXAOXY IONS | 718 |
| VIBRATIONAL ANALYSIS OF MONOMERIC TRIHALIDES OF GALLIUM AND INDIUM | 620 |
| MOLECULAR DYNAMICS MOLECULAR DYNAMICS OF SOME OCTAHEDRAL HEXAHALIDE ANIONS | 857 |
| MOLECULAR INTERACTION MOLECULAR INTERACTION AND THERMODYNAMIC PROPERTIES OF TERNARY LIQUID MIXTURES | 254 |
| MOLECULAR ORBITAL ENERGIES MOLECULAR ORBITAL ENERGIES AND X-RAY K- ABSORPTION SPECTRA OF COPPER IN METAL AND ITS OXIDES | 258 |
| MOLECULAR ORDER EPR STUDY OF MOLECULAR ORDER IN P-N- OCTYLOXY BENZYLIDENE-P-TOLUIDINE USING VAAC PROBE | 262 |
| MOLECULAR REORIENTATION STUDY OF MOLECULAR REORIENTATION IN PHENOTHIAZINE BY PMR | 757 |
| MOLECULAR STRUCTURE STRUCTURE AND VIBRATIONAL SPECTRA OF ETHYLTHIONFORMATE MOLECULES | 926 |
| BOND POLARIZABILITY DERIVATIVES AND FORCE CONSTANTS OF SOME XY ₃ PYRAMIDAL TYPE MOLECULES AND IONS | 302 |
| CENTRIFUGAL DISTORTION CONSTANTS OF CYCLOBUTANE AND CYCLOBUTANE-D ₈ | 623 |
| CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF C ₃ H ₆ , C ₃ D ₆ AND C ₃ F ₆ | 626 |
| CHARGE TRANSFER INTERACTION OF SOME BIOMOLECULES WITH CHLORANIL | 504 |
| CLOSE-COUPLING APPROACH TO LOW ENERGY ELECTRON SCATTERING BY OXYGEN MOLECULE | 408 |
| DIELECTRIC TRANSIENT RESPONSE OF SOME BIOMOLECULES FOLLOWING ULTRAVIOLET RADIATION | 139 |
| EMISSION SPECTRA OF PH(+) _n AND PD(+) _n MOLECULES | 276 |
| EMISSION SPECTRUM OF COPPER CHLORIDE MOLECULE | 200 |
| FORCE CONSTANTS OF SOME XY ₄ MOLECULES BY MODIFIED REDINGTON AND ALJIBURY METHOD | 305 |
| FORCE FIELD STUDIES OF ALPHA, BETA- UNSATURATED AMIDES I: N,N-DIMETHYL ACRYLAMIDE | 94 |
| INFLUENCE OF VIBRATION ROTATION INTERACTION ON FRANCK-CONDON FACTORS | 372 |
| INFRARED ABSORPTION SPECTRA OF 2-AMINO-P- CRESOL AND 2-AMINO-4-CHLOROPHENOL | 281 |
| INFRARED SPECTRA OF THE BIOLOGICAL MOLECULES 4,6-DIHYDROXY-2-METHYL PYRIMIDINE | 1032 |
| INTERPRETATION OF THE SPECTRA OF SUBSTITUTED BORAZINES BY UREY-BRADLEY FORCE FIELD | 396 |
| LASER RAMAN SPECTRUM OF 3,4- DICHLOROBROMOBENZENE | 143 |
| MOLECULAR CONSTANTS OF ACETYLENES: PART II-- CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF SILYLACETYLENE | 134 |
| MOLECULAR CONSTANTS OF ACETYLENES: PART-I CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF GEH ₃ CCH AND GED ₃ CCH | 625 |
| NEW SPECTRUM OF NiCl MOLECULE IN THE NEAR ULTRAVIOLET REGION | 802 |
| ON THE ISOTOPIC INVARIANTS OF POLYATOMIC MOLECULES | 964 |
| ON THE SYMMETRY GROUP OF NON-RIGID MOLECULE BF ₂ CH ₃ | 713 |
| PREDICTION OF DIPOLE MOMENTS OF POLAR MOLECULES FROM THE RELATION BETWEEN TAU(SOLUTE) AND ETA(SOLVENT) | 58 |
| QUANTUM CORRECTIONS TO THERMODYNAMIC PROPERTIES OF A MIXTURE OF HARD SPHERE AND SQUARE WELL MOLECULES | 869 |
| ROTATIONAL ANALYSIS OF THE (2,0) BAND OF C- 130(+)-16 MOLECULE OF COMET-TAIL SYSTEM | 370 |
| VIBRATIONAL ANALYSIS OF MONOMERIC TRIHALIDES OF GALLIUM AND INDIUM | 620 |
| VIBRATIONAL ASSIGNMENTS OF 2,3-, 2,5-, 2,6- AND 3,5-DICHLOROANILINES | 223 |
| VIBRATIONAL SPECTRA OF BIOLOGICAL MOLECULES: 2,4-DIAMINO-6-HYDROXY PYRIMIDINE | 195 |
| VIBRATIONAL SPECTRA OF P-METHOXY BENZONITRILE | 619 |
| VIBRATIONAL SPECTRUM OF 2,6- DICHLOROBENZAMIDE | 617 |
| MOLYBDENUM SPUTTERED MOLYBDENUM FILM RESISTORS | 1014 |
| MONOCLINIC RARE-EARTH SESQUIOXIDES TRANSPORT PROPERTIES OF MONOCLINIC RARE- EARTH SESQUIOXIDES | 150 |

KEYWORD INDEX

PAGE

| | | | |
|---|-----|---|------|
| MONOMERIC TRIMONICS | | PULSE PROGRAMMER FOR USE IN PULSED NMR | PAGE |
| VIBRATIONAL ANALYSIS OF MONOMERIC | | SECOND MOMENT OF SOLID HIPPURIC ACID BY | 145 |
| TRIMONICS OF GALLIUM AND INDIUM | | WIDE-LINE NMR | |
| MORSE POTENTIAL | 620 | NOISE | 731 |
| STUDIES ON THE STABILITY AND STRENGTH OF | | A LOW NOISE HIGH GAIN AMPLIFIER FOR | |
| FCC ALUMINUM USING MORSE POTENTIAL | | ACOUSTIC EMISSION | |
| MOSSBAUER EFFECT | 205 | NON-ALTERNANT HYDROCARBONS | 904 |
| A FUNCTION GENERATOR USING INTEGRATED | | RESONANCE ENERGIES OF NON-ALTERNANT | |
| CIRCUITS FOR MOSSBAUER EFFECT WORK | | HYDROCARBONS | |
| MOSSBAUER SPECTRA | 298 | NON-POLAR SOLVENTS | 665 |
| CATION DISTRIBUTION OF Mn ₂ FeO ₄ -A | | DIELECTRIC RELAXATION STUDY OF | |
| MOSSBAUER SPECTRAL STUDY | 747 | INTERMOLECULAR ASSOCIATION THROUGH | |
| DETERMINATION OF PREFERRED SITES OF Fe(2+) | | HYDROGEN BONDING OF P-HALOPHENOLS IN NON- | |
| IN THE LATTICES OF W-HEXAFLUORITE CRYSTAL | | POLAR SOLVENTS | 784 |
| OF Ba(2+)Fe ₂ (2+)F ₁₆ (3+)O ₂₇ FROM MOSSBAUER | 945 | DIELECTRIC STUDIES ON CARBOXYLIC ACIDS: | |
| SPECTRAL STUDY | | PART III--DIPOLAR THERMODYNAMIC EXCESS | |
| MOSSBAUER SPECTROSCOPIC STUDIES | | FUNCTIONS OF ACETIC, PROPIONIC AND | |
| MOSSBAUER SPECTROSCOPIC STUDIES ON OXIDES | | BUTYRIC ACIDS IN NON-POLAR SOLVENTS | 890 |
| AND HYDRATED OXIDES OF IRON | 473 | NON-RIGID MOLECULES | |
| MOSSBAUER WORK | | ON THE SYMMETRY GROUP OF NON-RIGID | |
| PULSE HEIGHT ANALYZER FOR HIGH COUNTING | | MOLECULE BF ₂ CH ₃ | 713 |
| RATE IN MOSSBAUER WORK | 999 | NON-ZERO MASS PARTICLES | |
| MULTIPLE POINT HOLOGRAM | | REDUCTION AND SECOND QUANTIZATION OF | |
| SIMPLE METHODS FOR GENERATION OF | | GENERALIZED ELECTROMAGNETIC FIELDS FOR | |
| HOLOGRAPHIC LENS ARRAY | 635 | NON-ZERO MASS SYSTEM | 568 |
| MULTIPLLET SPLITTINGS | | NONPOLAR SOLVENTS | |
| CALCULATION OF MULTIPLLET SPLITTINGS OF | | LIQUID STRUCTURE OF TERT-BUTYL ALCOHOL IN | |
| A ⁿ STATES OF SOME DIATOMIC ALKALINE- | | NONPOLAR SOLVENTS FROM DIELECTRIC STUDIES | 40 |
| EARTH HALIDES BY EXTENDED HUCKEL APPROACH | 324 | NQR | |
| MULTIPLICITIES | | SUBSTITUENT GROUP EFFECTS ON NQR FREQUENCY | |
| MEAN CHARGED MULTIPLICITIES IN HIGH ENERGY | | OF Br IN CERTAIN BROMOMETHANE DERIVATIVES | 631 |
| HADRON-NUCLEUS COLLISIONS | 778 | TEMPERATURE DEPENDENCE OF Cl-35 NQR IN | |
| NEAR ULTRAVIOLET SPECTRA | | SOME CHLORONITROTOLUENES | 702 |
| NEW SPECTRUM OF NiCl MOLECULE IN THE NEAR | | TEMPERATURE VARIATION OF NQR FREQUENCIES | 922 |
| ULTRAVIOLET REGION | 802 | IN 2,6-DICHLOROBENZAMIDE | |
| NEODYMIUM | | NUCLEAR DECAY | |
| ISOTOPE SHIFT IN UNCLASSIFIED AND SOME NEW | | COINCIDENCE STUDIES OF Ce-144 WITH | |
| LINES OF NEODYMIUM SPECTRA IN THE REGION | | IMPROVED DETECTION SYSTEM | 180 |
| 3930-6450 ANGSTROMS | 114 | NUCLEAR EMULSIONS | |
| NEON | | FORWARD-BACKWARD ASYMMETRY IN PROTON- | |
| AN INVESTIGATION OF THE ELECTRON CYCLOTRON | | NUCLEUS INTERACTION AT 70 GEV/C IN | |
| RESONANCE LINE SHAPE IN TRANSIENT | | EMULSION | 597 |
| AFTERGLOW PLASMAS OF NEON AND ARGON | 993 | NUCLEAR INTERACTIONS | |
| LASER POWER FLUCTUATIONS DUE TO STRIATIONS | | STUDY OF THE CLUSTER-SIZE IN P-NUCLEON | 544 |
| IN A He-He LASER OPERATING AT 6328 | | INTERACTION AT 70 GEV/C | |
| ANGSTROMS | 419 | NUCLEAR-DECAY DATA | |
| TRANSPORT PROPERTIES OF NEON, KRYPTON AND | | NUCLEAR-DECAY DATA--THE STATEMENT OF | 548 |
| XENON ACCORDING TO L-J (12-6) POTENTIAL | 459 | UNCERTAINTIES | |
| NEUTRON ACTIVATION DOSIMETRY | | NUCLEI | |
| ESTIMATION OF SODIUM CONTENT OF COTTON FOR | | CHARACTERISTICS OF FIREBALLS PRODUCED IN | |
| USE IN NEUTRON ACTIVATION DOSIMETRY | 130 | 200 GEV/C PROTON-NUCLEUS INTERACTIONS | 593 |
| NEUTRON IRRADIATION | | FORWARD-BACKWARD ASYMMETRY IN PROTON- | |
| NEUTRON IRRADIATION EFFECTS ON | 807 | NUCLEUS INTERACTION AT 70 GEV/C IN | |
| MAGNETOCURRENT IN SEMICONDUCTOR DIODES | | EMULSION | 597 |
| NEUTRONS | 678 | MEAN CHARGED MULTIPLICITIES IN HIGH ENERGY | 778 |
| DIPOLE POMERON AND NEUTRON-PROTON ELASTIC | | HADRON-NUCLEUS COLLISIONS | |
| SCATTERING BETWEEN 70 AND 400 GEV/C | | NUCLEONS | |
| NICKEL | 709 | QUARK MODEL AND OFF-SHELL FORM-FACTORS OF | |
| THERMOELECTRIC EFFECT IN Fe-Ni FILMS | | NUCLEONS | |
| NICKEL CHLORIDE | 802 | STUDY OF THE CLUSTER-SIZE IN P-NUCLEON | 544 |
| NEW SPECTRUM OF NiCl MOLECULE IN THE NEAR | | INTERACTION AT 70 GEV/C | |
| ULTRAVIOLET REGION | | OCTAHEDRA | |
| NICKEL FLUOSILICATE | 606 | CATIONIC EFFECT ON THE INTRAMOLECULAR | |
| ONE-SPIN CROSS-RELAXATION IN DILUTE NICKEL | | FORCES OF B(VI)O ₆ OCTAHEDRA IN ORDERED | 510 |
| FLUOSILICATE | 28 | CUBIC PEROVSKITES A ₂ B(II)B(VI)O ₆ | |
| NICKEL OXIDE | 816 | OCTYLOXY BENZYLIDENE-P-TOLUIDINE, P-N- | |
| NICKEL OXIDE ELECTRODE FOR PHOTOLYSIS | | EPR STUDY OF MOLECULAR ORDER IN P-N- | 262 |
| NITROGEN | | OCTYLOXY BENZYLIDENE-P-TOLUIDINE USING | |
| ESTIMATION OF THERMAL DIFFUSION FACTOR OF | | VAAC PROBE | |
| H ₂ -CO ₂ GAS MIXTURE FROM THERMAL DIFFUSION | | OFF-SHELL EFFECTS | |
| COLUMN DATA | | QUARK MODEL AND OFF-SHELL FORM-FACTORS OF | |
| NMR | | NUCLEONS | |
| AUTOMATIC TRIGGER PULSE LOGIC FOR THE | | ONE-DIMENSIONAL SYSTEM | |
| | | RELATIVISTIC ELECTRONIC STATE OF A ONE- | |
| | | 1069 | |

| PAGE | | PAGE | |
|--|------|--|------|
| DIMENSIONAL SYSTEM | 214 | PHASE TRANSITION | |
| OPALESCENT LIQUID MIXTURES | 977 | TEMPERATURE AND FREQUENCY DEPENDENCE OF DIELECTRIC PROPERTIES OF $\text{COSIF}_6 \cdot 6\text{H}_2\text{O}$ AROUND ITS STRUCTURAL PHASE TRANSITION | 981 |
| RADIO FREQUENCY CONDUCTIVITY OF OPALESCENT BINARY LIQUID MIXTURES | 636 | TEMPERATURE | |
| OPERATIONAL AMPLIFIER | 121 | PHASE TRANSITIONS | |
| A BANDPASS FILTER USING SINGLE OPERATIONAL AMPLIFIER POLE | 212 | HIGH TEMPERATURE PHASE TRANSITION IN V_3O_5 | 71 |
| SIMULATED INDUCTANCE USING OPERATIONAL AMPLIFIERS | 121 | PHENETIDINE | |
| OPTICAL ABSORPTION | 212 | ELECTRONIC ABSORPTION SPECTRA AND HYDROGEN BONDING BEHAVIOUR OF ANILINE AND PHENETIDINES | 793 |
| EPR AND OPTICAL ABSORPTION STUDIES ON THE COORDINATION COMPOUNDS OF COPPER(II) WITH (3,5-DIMETHYL ISOXAZOLE) AND (3-METHYL, 5- PHENYL ISOXAZOLE) LIGANDS | 167 | PHENOTHIAZINE | |
| OPTICAL ANISOTROPY | 1026 | STUDY OF MOLECULAR REORIENTATION IN PHENOTHIAZINE BY PMR | 757 |
| OPTICAL STUDY OF MAGNETIC POLARIZATION IN POLYPROPYLENE | 354 | PHENYLENEBIS (SALICYLALDIMINATO)COPPER(II)- THIOUREA | |
| ORGANIC SOLIDS | 220 | EPR STUDIES ON N,N' -ETHYLENEBIS (SALICYLALDIMINATO) COPPER(II)-THIOUREA | |
| AN ASSEMBLY FOR MEASURING THE DC CONDUCTIVITY OF ORGANIC SOLIDS | 363 | AND N,N' -O-PHENYLENEBIS (SALICYLALDIMINATO) COPPER(II)-THIOUREA | 337 |
| OSCILLATORS | 408 | PHLOROGLUCINAL DIHYDRATE | |
| INJECTION SYNCHRONIZATION IN THE FACE OF HEAVY INTERFERENCE | 138 | ELASTIC CONSTANTS OF PHLOROGLUCINAL DIHYDRATE BY X-RAY DIFFUSE SCATTERING | 1012 |
| STABILITY MEASUREMENTS IN TIME DOMAIN USING DUAL MIXER TIME DIFFERENCE SYSTEM | 91 | PHONON DISPERSION | |
| OXYGEN | 907 | PHONON DISPERSION IN LIQUID CARBON DISULPHIDE | 754 |
| APPLICATION OF HAGEMARK'S THEORY TO MULTICOMPONENT SYSTEMS ZNTE: Li, O AND NA- IMPLANTED CDS | 147 | PHONON MODE BEHAVIOUR | |
| CLOSE-COUPLING APPROACH TO LOW ENERGY ELECTRON SCATTERING BY OXYGEN MOLECULE | 262 | PHONON MODE BEHAVIOUR IN MIXED CUPROUS HALIDES | 733 |
| LIGHT ABSORPTION AND PHOTOEMISSION OF AG-O- CS PHOTOCATHODE | 603 | PHONONS | |
| PAIR POTENTIAL | 988 | LINEAR POTENTIAL AND PHONONS IN ALUMINIUM | 536 |
| AVERAGED POTENTIAL FOR COMPLEX POLAR FLUIDS | 510 | PHONON DISPERSION IN LIQUID CARBON | 754 |
| PALLADIUM | 767 | DISULPHIDE | 733 |
| COMPUTER SIMULATION OF TERNARY MISCELLITY GAP IN THE TERNARY ALLOY $\text{PD}(77.5)\text{Cu}(6)\text{Si}(16.5)$ | 387 | PHONON MODE BEHAVIOUR IN MIXED CUPROUS HALIDES | 429 |
| PARALLEL PLATE ELECTRON MULTIPLIER | 248 | PHONON-ROTON EXCITATION IN SUPERFLUID HE- 4 | 649 |
| PARALLEL PLATE ELECTRON MULTIPLIER USING $\text{SnO}_2\text{-Al2O}_3$ | 91 | PHOSPHINIUM ION | |
| PARAMAGNETIC PROBE | 147 | EMISSION SPECTRA OF $\text{PH}(+)$ AND $\text{PD}(+)$ MOLECULES | 276 |
| EPR STUDY OF MOLECULAR ORDER IN P-N- OCTYLOXY BENZYLIDENE-P-TOLUIDINE USING VAAC PROBE | 907 | PHOSPHORESCENCE | |
| PARISER-PARR-POPLE SCF-CI APPROXIMATION CALCULATION OF SPECTROSCOPIC CHARACTERISTICS OF SOME ACETOPHENONES USING PARISER-PARR-POPLE SCF-CI APPROXIMATION | 262 | THE $\text{A}_3\text{A}''\text{-X}_1\text{A}'$ PHOSPHORESCENCE OF CHLOROBENZALDEHYDE VAPOURS | 429 |
| PARTICLES OF NON-ZERO MASS | 603 | PHOSPHORS | |
| REDUCTION AND SECOND QUANTIZATION OF GENERALIZED ELECTROMAGNETIC FIELDS FOR NON-ZERO MASS SYSTEM | 988 | AN EMPIRICAL GENERALIZED RELATION ON DECAY OF CAS PHOSPHORS | 940 |
| PEROVSKITES | 510 | CENTRES ASSOCIATED WITH 480 K THERMAL GLOW PEAK IN KBr:TL | 704 |
| CATIONIC EFFECT ON THE INTRAMOLECULAR FORCES OF B(VI)_6 OCTAHEDRA IN ORDERED CUBIC PEROVSKITES $\text{A}_2\text{B(II)}_3\text{B(VI)}_6$ | 767 | ISOTHERMAL DECAY OF CaO:Eu:TB PHOSPHORS | 207 |
| PERSISTENT MASS CURRENTS | 387 | LUMINESCENCE OF ZnO PHOSPHOR IN GREEN AND RED REGIONS | 292 |
| HYDRODYNAMICS OF PERSISTENT MASS CURRENTS | 248 | PHOTODIELECTRIC EFFECT IN SRS:MN:Zr PHOSPHORS | 707 |
| PERSPEX | 988 | TEMPERATURE DEPENDENCE OF MAGNETIC SUSCEPTIBILITY OF $\text{CaSO}_4\text{: Dy}$ PHOSPHORS | 936 |
| ELECTRICAL CONDUCTION AND ISOTHERMAL DIELECTRIC RELAXATION IN PERSPEX | 510 | X-RAY DIFFRACTION AND FLUORESCENCE | |
| PERTURBATION THEORY | 767 | SPECTRAL STUDIES ON (CAS,BAS): CU PHOSPHORS | |
| A NEW APPROXIMATION UNDER THE PERTURBATION THEORY FOR MICROWAVE LINE-WIDTH CALCULATION AND THE QUADRUPOLE MOMENT OF BENZENE | 387 | X-RAY INDUCED THERMOLUMINESCENCE IN $\text{CaSO}_4\text{: Sm}$ PHOSPHORS | 6 |
| PHASE LOCKED LOOP RECEIVER | 441 | PHOSPHORUS (V) CHLOROFLUORIDES | 562 |
| ACQUISITION BEHAVIOUR OF PHASE LOCKED LOOPS IN THE FACE OF RAYLEIGH AND LOGNORMAL FADING SIGNALS | 441 | CENTRIFUGAL DISTORTION CONSTANTS OF SOME PHOSPHORUS (V) CHLOROFLUORIDES | 912 |
| | | PHOTOCATHODE | |
| | | LIGHT ABSORPTION AND PHOTOEMISSION OF AG-O- CS PHOTOCATHODE | 138 |
| | | PHOTOCONDUCTION, DOPING | |
| | | PHOTOCONDUCTING PROPERTIES OF CDS:NA FILMS | 15 |
| | | PHOTOCONDUCTIVITY | |
| | | STATIC AND IMPULSE PHOTOCONDUCTIVITY IN $\text{Bi}_1\text{2Ge}_2\text{O}_2$ | 834 |
| | | PHOTODETECTOR TEMPERATURE | |
| | | EFFECT OF FIELD AND DETECTOR TEMPERATURES ON PHOTON COUNT STATISTICS | 348 |

KEYWORD INDEX

PAGE

| | | PAGE |
|---|--|------|
| PHOTODIELECTRIC EFFECT | | |
| PHOTODIELECTRIC EFFECT IN SRS:MN:ZR | | |
| PHOSPHORS | | |
| PHOTOELECTRON SPECTRA | | |
| GREEN'S FUNCTION CALCULATIONS ON THE | | |
| PHOTOELECTRON SPECTRA OF SOME SMALL | | |
| HETEROATOMIC PI-ELECTRON SYSTEMS | | |
| PHOTOEMISSION | | |
| LIGHT ABSORPTION AND PHOTOEMISSION OF AG-O- | | |
| CS PHOTOCATHODE | | |
| PHOTOLUMINESCENCE | | |
| PIEZO-INDUCED MECHANOLUMINESCENCE AND | | |
| PHOTOLUMINESCENCE OF TRIPHENYLAMINE | | |
| CRYSTALS | | |
| PHOTOLYSIS | | |
| NICKEL OXIDE ELECTRODE FOR PHOTOLYSIS | | |
| PHOTOLYTIC BEHAVIOUR | | |
| PHOTOLYTIC BEHAVIOUR OF P AND P(+) | | |
| SILICON CRYSTAL IN HF | | |
| PHOTON COUNT | | |
| EFFECT OF FIELD AND DETECTOR TEMPERATURES | | |
| ON PHOTON COUNT STATISTICS | | |
| PHYSICAL PROPERTIES | | |
| AN ALTERNATIVE APPROACH FOR THE | | |
| DESCRIPTION OF PHYSICAL PROPERTIES IN | | |
| FERROIC SPECIES | | |
| PI-ELECTRONS | | |
| GREEN'S FUNCTION CALCULATIONS ON THE | | |
| PHOTOELECTRON SPECTRA OF SOME SMALL | | |
| HETEROATOMIC PI-ELECTRON SYSTEMS | | |
| SEMI-EMPIRICAL PI-ELECTRON CALCULATIONS | | |
| ON SOME MONO SUBSTITUTED ACETOPHENONES | | |
| PIEZOELECTRIC SEMICONDUCTORS | | |
| EXCITATION OF MAGNETOACOUSTIC WAVE BY | | |
| ACOUSTIC WAVE IN InSB | | |
| PLASMAS | | |
| AN INVESTIGATION OF THE ELECTRON CYCLOTRON | | |
| RESONANCE LINE SHAPE IN TRANSIENT | | |
| AFTERGLOW PLASMAS OF NEON AND ARGON | | |
| ELECTRON-PLASMA MODEL FOR THE | | |
| ELECTROMAGNETIC EFFECT AT METALLIC | | |
| FRACTURE | | |
| MOTIONAL IMPEDANCE OF A RIGID, CONDUCTING, | | |
| DIAMAGNETIC PROLATE PLASMA SPHEROID | | |
| REFLECTION AND TRANSMISSION OF ION | | |
| ACOUSTIC SOLITON AT A PLASMA INTERFACE | | |
| STUDY OF PARAMETERS OF ARGON PLASMA BY | | |
| MICROWAVE SCANNING TECHNIQUE | | |
| PLASMONS | | |
| PLASMON EXCITATION IN SOLIDS DURING X-RAY | | |
| SCATTERING | | |
| PLASTIC DEFORMATION | | |
| THE PLASTIC DEFORMATION OF COPPER-BERYLLIUM ALLOY | | |
| PMR | | |
| BROAD LINE PROTON MAGNETIC RESONANCE | | |
| INVESTIGATIONS ON SOLID SEMI-CARBAZIDE | | |
| HYDROCHLORIDE | | |
| PMR STUDY OF INTRAMOLECULAR MOTION IN | | |
| SOLID 2,4-DINITROPHENYL HYDRAZINE | | |
| STUDY OF MOLECULAR REORIENTATION IN | | |
| PHENOTHIAZINE BY PMR | | |
| POINT GROUPS | | |
| AN ALTERNATIVE APPROACH FOR THE | | |
| DESCRIPTION OF PHYSICAL PROPERTIES IN | | |
| FERROIC SPECIES | | |
| MOLECULAR CONSTANTS OF SOME HEXAHALOANIONS | | |
| OF GROUP IV A AND GROUP V A BELONGING TO | | |
| OH POINT GROUP | | |
| POISSON'S RATIO | | |
| VOLUME DEPENDENCE OF POISSON'S RATIO AND | | |
| THE GRUNEISEN PARAMETER IN ALKALI HALIDES | | |
| POLAR FLUIDS | | |
| AVERAGED POTENTIAL FOR COMPLEX POLAR FLUIDS | | |
| POLAR LIQUID DIELECTRIC | | |
| RELAXATION TIME AND ACTIVATION ENERGY FOR | | |
| | VISCOSITY FROM RADIOFREQUENCY | |
| | CONDUCTIVITY MEASUREMENTS | |
| 707 | POLAR LIQUIDS | 588 |
| | EFFECT OF ION DIFFUSION FROM DOUBLE LAYER | |
| | CAPACITORS ON RF CONDUCTION IN POLAR | |
| | LIQUIDS | |
| 917 | MICROWAVE CONDUCTIVITY AND RELAXATION | 669 |
| | TIME OF POLAR LIQUIDS | |
| | ON SARMA AND RAO'S RELATION FOR TAU FOR | |
| | BINARY MIXTURES OF POLAR LIQUIDS | |
| 138 | POLAR MOLECULES | 535 |
| | PREDICTION OF DIPOLE MOMENTS OF POLAR | |
| | MOLECULES FROM THE RELATION BETWEEN | |
| | TAU(SOLUTE) AND ETA(SOLVENT) | |
| 743 | POLAR SUBSTANCES | 58 |
| | ESTIMATION OF LIMITING SOLID VOLUME OF | |
| | POLAR SUBSTANCES: AN ANALYTICAL METHOD | |
| 28 | POLARIZATION | 915 |
| | OPTICAL STUDY OF MAGNETIC POLARIZATION IN | |
| | POLYPROPYLENE | |
| 468 | POLYMERS | 167 |
| | DIELECTRIC INVESTIGATIONS IN MAGNETO-ELECTRET STATE OF POLYPROPYLENE | |
| | EFFECT OF PHYSICAL AGING ON ELECTRICAL | |
| | PROPERTIES OF POLYSTYRENE | |
| 348 | ELECTRICAL CONDUCTION AND ISOTHERMAL | 839 |
| | DIELECTRIC RELAXATION IN PERSPEX | |
| | OPTICAL STUDY OF MAGNETIC POLARIZATION IN | |
| | POLYPROPYLENE | |
| 449 | POLYPROPYLENE | 167 |
| | DIELECTRIC INVESTIGATIONS IN MAGNETO-ELECTRET STATE OF POLYPROPYLENE | |
| | OPTICAL STUDY OF MAGNETIC POLARIZATION IN | |
| 917 | POLYPROPYLENE | 845 |
| | POLYPROPYLENE | |
| 327 | POLYSTYRENE | 167 |
| | EFFECT OF PHYSICAL AGING ON ELECTRICAL | |
| | PROPERTIES OF POLYSTYRENE | |
| 465 | POLYTYPE | 839 |
| | ENTROPY CONTRIBUTIONS IN DETERMINING THE | |
| | RELATIVE STABILITIES OF POLYTYPE | |
| 993 | POLYVINYLIDENE FLUORIDE | 577 |
| | MECHANISM RESPONSIBLE FOR THE OBSERVED | |
| | DIELECTRIC RELAXATIONS IN POLYVINYLIDENE | |
| 851 | FLUORIDE | 183 |
| | POLYVINYLIDENE FLUORIDE(PVF ₂) | |
| | CHARGE CHARACTERISTICS AND DIELECTRIC | |
| | BEHAVIOUR OF PVF ₂ MAGNETO-ELECTRETS AT | |
| | AUDIO AND RADIO FREQUENCY | |
| 1028 | POMERON | 24 |
| | DIPOLE POMERON AND NEUTRON-PROTON ELASTIC | |
| | SCATTERING BETWEEN 70 AND 400 GEV/C | |
| 673 | POROUS MATERIALS | 678 |
| | PREDICTION OF EFFECTIVE THERMAL | |
| | CONDUCTIVITY OF TWO-PHASE POROUS | |
| | MATERIALS USING RESISTOR MODEL | |
| 271 | POTASSIUM ACETATE | 984 |
| | RELATIVE PERMITTIVITY OF THE ACETATES OF | |
| | POTASSIUM, LITHIUM, RUBIDIUM AND CESIUM | |
| 997 | POTASSIUM BROMIDE | 1019 |
| | CENTRES ASSOCIATED WITH 480 K THERMAL GLOW | |
| | PEAK IN KBR:TL | |
| 1017 | EVALUATION OF GRUNEISEN CONSTANT OF KCL-KBR MIXED SYSTEM | 57 |
| | VARIATION OF HARDNESS WITH LOAD FOR | |
| | QUENCHED KBR SINGLE CRYSTALS | |
| 757 | POTASSIUM CHLORIDE | 365 |
| | EVALUATION OF GRUNEISEN CONSTANT OF KCL-KBR MIXED SYSTEM | |
| 449 | POTASSIUM DIHYDROGEN PHOSPHATE | 57 |
| | KINETICS OF GROWTH AND DISSOLUTION OF | |
| | POTASSIUM DIHYDROGEN PHOSPHATE CRYSTALS | |
| 516 | IN AQUEOUS SOLUTIONS | 479 |
| | POTASSIUM HYDROGEN DIFLUORIDE | |
| | LATTICE VIBRATION MODES IN KHF ₂ | |
| 553 | POTASSIUM PYROSULPHATE | 738 |
| | CRYSTAL GROWTH OF TRANSITION METAL OXIDES | |
| 91 | | 1071 |

| PAGE | | PAGE | |
|--|------|--|-----|
| FROM POTASSIUM PYROSULPHATE FLUX POTENTIAL | 304 | PROTONS | |
| AVERAGED POTENTIAL FOR COMPLEX POLAR FLUIDS | 91 | CHARACTERISTICS OF FIREBALLS PRODUCED IN 200 GEV/C PROTON-NUCLEUS INTERACTIONS | 593 |
| CALCULATION OF IONIC RADII OF ALKALI HALIDE CRYSTALS THROUGH SCREENED COULOMB POTENTIAL | 810 | DIPOLE POMERON AND NEUTRON-PROTON ELASTIC SCATTERING BETWEEN 70 AND 400 GEV/C | 678 |
| CLOSE-COUPLING APPROACH TO LOW ENERGY ELECTRON SCATTERING BY OXYGEN MOLECULE | 408 | EFFECT OF POLARIZED VELOCITY DISTRIBUTION OF ELECTRONS ON DOUBLE IONIZATION OF HE BY PROTON IMPACT | 176 |
| COMPRESSIBILITY OF SIMPLE METALS ON HARRISON-POTENTIAL | 557 | FORWARD-BACKWARD ASYMMETRY IN PROTON- NUCLEUS INTERACTION AT 70 GEV/C IN EMULSION | 597 |
| EFFECTIVE POTENTIAL FOR THE O(N) SYMMETRIC PHI-6 MODEL | 771 | PULSE HEIGHT ANALYZER | |
| LINEAR POTENTIAL AND PHONONS IN ALUMINIUM | 536 | PULSE HEIGHT ANALYZER FOR HIGH COUNTING RATE IN MOSSBAUER WORK | 999 |
| SPARKING POTENTIALS IN LONGITUDINAL MAGNETIC FIELDS | 725 | PULSE PROGRAMMER | |
| STRONG COUPLING HARMONIC OSCILLATOR POTENTIAL WITH WEAKLY COUPLED LINEAR AND CUBIC ANHARMONICITIES | 878 | AUTOMATIC TRIGGER PULSE LOGIC FOR THE PULSE PROGRAMMER FOR USE IN PULSED NMR | 145 |
| STUDIES ON THE STABILITY AND STRENGTH OF FCC ALUMINIUM USING MORSE POTENTIAL | 205 | PYRAMIDAL MOLECULES | |
| TRANSPORT PROPERTIES OF NEON, KRYPTON AND XENON ACCORDING TO L-J (12-6) POTENTIAL | 459 | BOND POLARIZABILITY DERIVATIVES AND FORCE CONSTANTS OF SOME XY ₃ PYRAMIDAL TYPE MOLECULES AND IONS | 302 |
| POTENTIAL DIVIDER | 687 | PYRENE PICRATE | |
| ELECTRICAL CHARACTERISTICS OF 50 KV RESISTANCE POTENTIAL DIVIDER | | PRELIMINARY X-RAY STUDY OF PYRENE PICRATE | 702 |
| POTENTIAL ENERGY CONSTANTS | | PYRIDINES | |
| RELATIONSHIP BETWEEN POTENTIAL ENERGY CONSTANTS AND HEAT OF ATOMIZATION | 392 | INFRARED ABSORPTION OF 2-AMINO-3-METHYL- AND 6-AMINO-2-METHYL-PYRIDINE | 930 |
| POTENTIAL ENERGY CURVE | | INFRARED STUDIES ON SOME DI-SUBSTITUTED PYRIDINES | 928 |
| RKRV POTENTIAL ENERGY CURVE AND DISSOCIATION ENERGY OF CAO | 818 | PYROPHILLITE | |
| POWDER COMPACTS | | DIELECTRIC PROPERTIES OF INDIAN CLAY MINERALS: BENTONITE AND PYROPHILLITE | 401 |
| ELECTRICAL PROPERTIES OF SINTERED SELENIUM POWDER COMPACTS | 242 | | |
| POWDERS | | QUADRUPOLE MOMENT | |
| DIELECTRIC BEHAVIOUR OF FERROELECTRIC AMMONIUM BISULPHATE POWDERS | 135 | A NEW APPROXIMATION UNDER THE PERTURBATION THEORY FOR MICROWAVE LINE-WIDTH CALCULATION AND THE QUADRUPOLE MOMENT OF BENZENE | 248 |
| POWER FLUCTUATIONS | | QUADRUPOLE POLARIZABILITIES | |
| LASER POWER FLUCTUATIONS DUE TO STRIATIONS IN A HE-NE LASER OPERATING AT 6328 ANGSTROMS | 419 | DIPOLE AND QUADRUPOLE POLARIZABILITIES AND SHIELDING FACTORS OF LI USING HYDRODYNAMIC ANALOGY | 218 |
| PREFERRED SITES | | QUANTIZATION | |
| DETERMINATION OF PREFERRED SITES OF FE(2+) IN THE LATTICES OF W-HEXAFLUORITE CRYSTAL OF Ba(2+)Fe(2+)F16(3+)O27 FROM MOSSBAUER SPECTRAL STUDY | 945 | REDUCTION AND SECOND QUANTIZATION OF GENERALIZED ELECTROMAGNETIC FIELDS FOR NON-ZERO MASS SYSTEM | 988 |
| PRESSURE | | QUANTUM CORRECTIONS | |
| ELECTRICAL PROPERTIES OF BI ₂ O ₃ LAYERS UNDER REDUCED PRESSURE | 452 | QUANTUM CORRECTIONS TO THERMODYNAMIC PROPERTIES OF A MIXTURE OF HARD SPHERE AND SQUARE WELL MOLECULES | 868 |
| PRESSURE-BROADENED LINE-WIDTHS | | QUARK MODEL | |
| TEMPERATURE DEPENDENCE OF PRESSURE- BROADENED MICROWAVE LINE-WIDTHS OF SOME ROTATIONAL LINES OF CARBONYL SULPHIDE | 1023 | QUARK MODEL AND OFF-SHELL FORM-FACTORS OF NUCLEONS | 805 |
| PRISM FACES, SECOND ORDER | | QUARKONIUM (T̄T) | |
| MICROTOPOGRAPHICAL STUDIES OF SECOND ORDER PRISM FACES OF SYNTHETIC QUARTZ CRYSTALS | 162 | LEPTONIC AND HADRONIC DECAY WIDTHS OF NEXT QUARKONIUM (T̄T) | 801 |
| PROLATE SPHEROID | | QUARTZ | |
| MOTIONAL IMPEDANCE OF A RIGID, CONDUCTING, DIAMAGNETIC PROLATE PLASMA SPHEROID | 1028 | ACCURATE MEASUREMENT OF TANGENTIAL VIBRATIONS OF QUARTZ CRYSTALS | 905 |
| PROPIONIC ACID | | MICROTOPOGRAPHICAL STUDIES OF SECOND ORDER PRISM FACES OF SYNTHETIC QUARTZ CRYSTALS | 162 |
| DIELECTRIC STUDIES ON CARBOXYLIC ACIDS: PART III--DIPOLAR THERMODYNAMIC EXCESS FUNCTIONS OF ACETIC, PROPIONIC AND BUTYRIC ACIDS IN NON-POLAR SOLVENTS | 890 | PI*-PI SYSTEMS IN THE QUARTZ ULTRAVIOLET ELECTRONIC ABSORPTION SPECTRA OF SOME DI- AND TRISUBSTITUTED ACETOPHENONES | 332 |
| PROPYLENE | | QUENCHING | |
| IONIZATION AND DISSOCIATION OF PROPYLENE BY ELECTRON IMPACT | 31 | VARIATION OF HARDNESS WITH LOAD FOR QUENCHED KBR SINGLE CRYSTALS | 365 |
| PROTON-NUCLEUS INTERACTIONS | | | |
| CHARACTERISTICS OF FIREBALLS PRODUCED IN 200 GEV/C PROTON-NUCLEUS INTERACTIONS | 593 | RADIO FREQUENCY | |
| FORWARD-BACKWARD ASYMMETRY IN PROTON- NUCLEUS INTERACTION AT 70 GEV/C IN EMULSION | 597 | CHARGE CHARACTERISTICS AND DIELECTRIC BEHAVIOR OF PVF ₂ MAGNETOELECTRETS AT AUDIO AND RADIO FREQUENCY | 24 |
| PROTON-PROTON SCATTERING | | | |
| ANALYSIS OF PROTON-PROTON ELASTIC SCATTERING AT HIGH ENERGIES | 884 | | |

| KEYWORD INDEX | | PAGE |
|--|------|------|
| | PAGE | |
| RADIO FREQUENCY CONDUCTIVITY | | |
| RADIO FREQUENCY CONDUCTIVITY OF OPALESCENT | | |
| BINARY LIQUID MIXTURES | 977 | |
| RAMAN SPECTRA | | |
| LASER RAMAN SPECTRUM OF 3,4- | | |
| DICHLOROBROMOBENZENE | 143 | |
| STRUCTURE AND VIBRATIONAL SPECTRA OF | | |
| ETHYLTHIONFORMATE | 926 | |
| VIBRATIONAL ASSIGNMENTS OF 2,3-, 2,5-, 2,6- | | |
| AND 3,5-DICHLORGANILINES | 223 | |
| RANGE ELECTRONS | | |
| CALCULATIONS OF CSDA RANGE AND PROJECTED | | |
| RANGE OF MONOENERGETIC ELECTRONS | 461 | |
| RAO'S ACOUSTICAL PARAMETER | | |
| SURFACE TENSION OF HARD SPHERE LIQUIDS | | |
| WITH ATTRACTIVE INTERACTIONS AND | | |
| ESTIMATION OF RAO'S ACOUSTICAL PARAMETER | 457 | |
| RARE EARTH CHELATES | | |
| MAGNETO AND SPECTRAL STUDIES ON RARE EARTH | | |
| CHELATES OF BETA-BENZIDINYL 2:4- | | |
| DIHYDROXY PROPIOPHENONE | 973 | |
| RARE-EARTH SESQUIOXIDES | | |
| TRANSPORT PROPERTIES OF MONOCLINIC RARE- | | |
| EARTH SESQUIOXIDES | 150 | |
| RAYLEIGH FADING SIGNALS | | |
| ACQUISITION BEHAVIOUR OF PHASE LOCKED | | |
| LOOPS IN THE FACE OF RAYLEIGH AND | | |
| LOGNORMAL FADING SIGNALS | 441 | |
| RED SPECTRAL REGION | | |
| LUMINESCENCE OF ZNO PHOSPHOR IN GREEN AND | | |
| RED REGIONS | | |
| REDINGTON AND ALJIBURY METHOD | | |
| FORCE CONSTANTS OF SOME XY ₄ MOLECULES BY | | |
| MODIFIED REDINGTON AND ALJIBURY METHOD | 292 | |
| REFERENCE STANDARDS | | |
| A METHOD OF ABSOLUTE SPECTROSCOPIC | | |
| ANALYSIS USING X-RAY FLUORESCENCE | | |
| TECHNIQUE | 305 | |
| REFLECTION, SOLITON | | |
| REFLECTION AND TRANSMISSION OF ION | | |
| ACOUSTIC SOLITON AT A PLASMA INTERFACE | 437 | |
| RELATIVISTIC CORRECTION | | |
| RELATIVISTIC CORRECTION FOR THE NPL | | |
| (INDIA)-PTB (WEST GERMANY) CLOCK | | |
| SYNCHRONIZATION EXPERIMENTS | 673 | |
| RELATIVISTIC ELECTRONIC STATE | | |
| RELATIVISTIC ELECTRONIC STATE OF A ONE- | | |
| DIMENSIONAL SYSTEM | 214 | |
| RELATIVITY | | |
| A COMPOSITE FLUID SPHERE WITH TWO DENSITY | | |
| DISTRIBUTIONS IN GENERAL RELATIVITY | 874 | |
| RELAXATION TIME | | |
| MICROWAVE CONDUCTIVITY AND RELAXATION | | |
| TIME OF POLAR LIQUIDS | 629 | |
| ON SARMA AND RAO'S RELATION FOR TAU FOR | | |
| BINARY MIXTURES OF POLAR LIQUIDS | | |
| PREDICTION OF DIPOLE MOMENTS OF POLAR | | |
| MOLECULES FROM THE RELATION BETWEEN | | |
| TAU(SOLUTE) AND ETA(SOLVENT) | 535 | |
| RELAXATION TIME AND ACTIVATION ENERGY FOR | | |
| VISCOSITY FROM RADIOFREQUENCY | | |
| CONDUCTIVITY MEASUREMENTS | 59 | |
| RESISTANCE (50 K V) PROBE | | |
| ELECTRICAL CHARACTERISTICS OF 50 K V | | |
| RESISTANCE POTENTIAL DIVIDER | 588 | |
| RESISTIVITY | | |
| IN SITU RESISTIVITY MEASUREMENTS ON THIN | | |
| SILVER FILMS | 687 | |
| RESISTIVITY OF THIN BISMUTH FILMS | | |
| RESISTOR MODEL | | |
| PREDICTION OF EFFECTIVE THERMAL | | |
| CONDUCTIVITY OF TWO-PHASE POROUS | | |
| MATERIALS USING RESISTOR MODEL | 984 | |
| RESISTORS | | |
| SPUTTERED MOLYBDENUM FILM RESISTORS | 1014 | |
| RESONANCE ENERGY | | |
| RESONANCE ENERGIES OF NON-ALTERNANT | | |
| HYDROCARBONS | 665 | |
| RESONANCE SCATTERING | | |
| APPLICATION OF GLAUBER APPROXIMATION TO | | |
| FESHBACH-TYPE RESONANCE SCATTERING | 615 | |
| RKRV POTENTIAL ENERGY CURVE | | |
| RKRV POTENTIAL ENERGY CURVE AND | | |
| DISSOCIATION ENERGY OF CAO | 818 | |
| ROTATIONAL ANALYSIS | | |
| ROTATIONAL ANALYSIS OF THE (2,0) BAND OF C- | | |
| 130(+)-16 MOLECULE OF COMET-TAIL SYSTEM | 370 | |
| ROTATIONAL LINES | | |
| TEMPERATURE DEPENDENCE OF PRESSURE- | | |
| BROADENED MICROWAVE LINE-WIDTHS OF SOME | | |
| ROTATIONAL LINES OF CARBONYL SULPHIDE | 1023 | |
| ROTATIONAL RELAXATION | | |
| TEMPERATURE DEPENDENCE OF ROTATIONAL | | |
| RELAXATION IN O- AND N- HYDROGEN | 970 | |
| ROTONS | | |
| PHONON-ROTON EXCITATION IN SUPERFLUID | | |
| HE-4 | 649 | |
| RUBBER | | |
| DIELECTRIC LOSS FACTOR IN MAGNETICALLY | | |
| POLARIZED SILICONE RUBBER TUBULAR | | |
| ELECTRETS BY TSDC | 923 | |
| ELECTRET PROPERTIES OF ELECTRICALLY | | |
| CHARGED SILICONE RUBBER | 957 | |
| MICROWAVE ABSORBING MATERIAL USING RUBBER | | |
| AND CARBON | 216 | |
| RUBIDIUM | | |
| FREQUENCY MOMENTS AND VISCOSITIES OF | | |
| LIQUID RUBIDIUM | 538 | |
| RUBIDIUM ACETATE | | |
| RELATIVE PERMITTIVITY OF THE ACETATES OF | | |
| POTASSIUM, LITHIUM, RUBIDIUM AND CESIUM | 1019 | |
| RUBIDIUM CHLORIDE | | |
| BREAKDOWN OF RBCL FILMS DUE TO APPLICATION | | |
| OF ELECTRIC VOLTAGE PULSES | 231 | |
| RUTILE-TYPE CRYSTALS | | |
| ELECTRONIC POLARIZABILITIES AND RADII OF | | |
| IONS IN RUTILE-TYPE CRYSTALS | 961 | |
| SAMARIUM ACTIVATOR | | |
| X-RAY INDUCED THERMOLUMINESCENCE IN | | |
| CASO ₄ :SM PHOSPHORS | 562 | |
| SARMA AND RAO'S RELATION | | |
| ON SARMA AND RAO'S RELATION FOR TAU FOR | | |
| BINARY MIXTURES OF POLAR LIQUIDS | 535 | |
| SCATTERING | | |
| ANALYSIS OF PROTON-PROTON ELASTIC | | |
| SCATTERING AT HIGH ENERGIES | 884 | |
| APPLICATION OF GLAUBER APPROXIMATION TO | | |
| FESHBACH-TYPE RESONANCE SCATTERING | 615 | |
| CLOSE-COUPLING APPROACH TO LOW ENERGY | | |
| ELECTRON SCATTERING BY OXYGEN MOLECULE | 408 | |
| DIPOLE POMERON AND NEUTRON-PROTON ELASTIC | | |
| SCATTERING BETWEEN 70 AND 400 GEV/C | 678 | |
| ELASTIC CONSTANTS OF PHLOROGLUCINAL | | |
| DIHYDRATE BY X-RAY DIFFUSE SCATTERING | 1012 | |
| PLASMON EXCITATION IN SOLIDS DURING X-RAY | | |
| SCATTERING | 727 | |
| SCHOTTKY CONTACTS | | |
| ELECTROCHEMICALLY DEPOSITED SCHOTTKY | | |
| CONTACTS ON N-EPIТАXIAL SILICON | 368 | |
| SCREW-LIKE DISLOCATIONS | | |
| BEHAVIOR OF SCREW-LIKE DISLOCATIONS NEAR | | |
| AN INTERFACE IN THE PRESENCE OF LATTICE | | |
| FRICTIONAL FORCES-THREE DISLOCATIONS | 295 | |
| SECOND MOMENT | | |
| SECOND MOMENT OF SOLID HIPPURIC ACID BY | | |
| WIDE-LINE NMR | 731 | |
| SELENIUM | | |
| ELECTRICAL CONDUCTIVITY AND DIELECTRIC | | |
| CONSTANT OF SEMICONDUCTING GLASSES: AS-GE- | | |

| | | | |
|---|------|---|------|
| TE AND SE-GE-TE ALLOY SYSTEMS | 318 | SILVER | |
| ELECTRICAL PROPERTIES OF SINTERED SELENIUM POWDER COMPAKTS | 242 | IN SITU RESISTIVITY MEASUREMENTS ON THIN SILVER FILMS | 614 |
| SELF-ABSORPTION | | LIGHT ABSORPTION AND PHOTOEMISSION OF AG-O- CS PHOTOCATHODE | 138 |
| SELF-ABSORPTION-FREE FEI SPECTRAL LINES FOR TEMPERATURE MEASUREMENT IN THE DC CARBON ARC | 528 | SILVER BROMIDE | |
| SELF-DIFFUSION COEFFICIENTS | | ELASTIC CONSTANTS OF AGCL-AGBR MIXED CRYSTALS | 227 |
| MEASUREMENTS OF SELF-DIFFUSION COEFFICIENTS IN HG AND GA BY A RADIOACTIVE TRACER TECHNIQUE | 87 | SILVER CHLORIDE | |
| SEMI-CARBAZIDE HYDROCHLORIDE | | ELASTIC CONSTANTS OF AGCL-AGBR MIXED CRYSTALS | 227 |
| BROAD LINE PROTON MAGNETIC RESONANCE INVESTIGATIONS ON SOLID SEMI-CARBAZIDE HYDROCHLORIDE | 997 | SILVER HALIDES | |
| SEMICONDUCTING GLASSES | | EVALUATION OF VAN DER WAALS COEFFICIENTS IN SILVER AND THALLOUS HALIDES | 549 |
| ELECTRICAL CONDUCTIVITY AND DIELECTRIC CONSTANT OF SEMICONDUCTING GLASSES: AS-GE- TE AND SE-GE-TE ALLOY SYSTEMS | 318 | SILYLACETYLENE | |
| SEMICONDUCTOR DIODES | | MOLECULAR CONSTANTS OF ACETYLENES: PART II-- CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF SILYLACETYLENE | 134 |
| NEUTRON IRRADIATION EFFECTS ON MAGNETOCURRENT IN SEMICONDUCTOR DIODES | 807 | SINGLE CRYSTALS | |
| SEMICONDUCTORS | | COMPRESSION OF SODIUM CHLORIDE SINGLE CRYSTALS ALONG (001) DIRECTION | 953 |
| I-V CHARACTERISTICS OF SEMICONDUCTOR- INSULATOR-SEMICONDUCTOR SOLAR CELLS | 532 | DISLOCATION VELOCITIES IN ZINC SINGLE CRYSTALS | 236 |
| SENSOR | | ELECTRON MICROSCOPY OF TAS ₂ SINGLE CRYSTALS USING WEAK BEAM TECHNIQUE | 899 |
| SENSOR DESIGN FOR AN ELECTROMAGNETIC FLOW- METER | | POLARIZED ABSORPTION SPECTRA OF FLUORANTHENE IN PURE AND MIXED CRYSTALS | 191 |
| SESQUIOXIDES | | PRELIMINARY SINGLE CRYSTAL X-RAY STUDY OF N-METHYL CROTANANINIUM IODIDE | 62 |
| TRANSPORT PROPERTIES OF MONOCLINIC RARE- EARTH SESQUIOXIDES | 150 | STUDY OF SOLID-LIQUID INTERFACE OF BISMUTH- ANTIMONY ALLOY SINGLE CRYSTALS | 658 |
| SHEATH HELIX | | STUDY OF SURFACE DISTORTION AROUND DYNAMIC IMPACTS ON CLEAVAGES OF SODIUM BROMIDE SINGLE CRYSTALS | |
| A HEURISTIC FORMULA FOR THE DIELECTRIC LOADING FACTOR OF A HELIX SUPPORTED BY DIELECTRIC CIRCULAR RODS | 63 | VARIATION OF HARDNESS WITH LOAD FOR QUENCHED KBR SINGLE CRYSTALS | 365 |
| SHIELDING FACTORS | | SINGLE-PARTICLE STATES | |
| DIPOLE AND QUADRUPOLE POLARIZABILITIES AND SHIELDING FACTORS OF LI USING HYDRODYNAMIC ANALOGY | 218 | LIFETIMES OF SINGLE-PARTICLE STATES NEAR CA-48 | 728 |
| SILASTIC | | SINGLE-POLE OPERATIONAL AMPLIFIER | |
| THERMAL CURRENTS IN MAGNETICALLY POLARIZED SILASTIC TUBULAR ELECTRETS | 20 | A BANDPASS FILTER USING SINGLE OPERATIONAL AMPLIFIER POLE | 636 |
| SILICON | | SKY(CLEAR) CONDITIONS | |
| COMPUTER SIMULATION OF TERNARY MISCELLANITY GAP IN THE TERNARY ALLOY PD(77.5)Cu(6)Si(16.5) | 147 | MEASUREMENT AND ANALYSIS OF SOLAR RADIATION AND ILLUMINATION FOR CLEAR SKY CONDITIONS | 413 |
| CREATION AND ELIMINATION OF DISLOCATIONS IN FLOAT ZONE SILICON CRYSTALS | 642 | SLATER-CONDON PARAMETERS | |
| ELECTROCHEMICALLY DEPOSITED SCHOTTKY CONTACTS ON N-EPIXTIAL STI ICION | 368 | SLATER-CONDON AND SPIN-ORBIT PARAMETERS FOR TM ₃₊ IN THULIUM SULPHATE, THULIUM ETHYL SULPHATE AND ZINC SULPHIDE | 1015 |
| I-V MODEL FOR PHOTOLYSIS USING SI AS CATALYST | 654 | SLOW-WAVE STRUCTURES | |
| MAGNETIC PROPERTIES OF SI-DOPED YIG SINGLE CRYSTALS | 639 | CIRCUIT PARAMETERS FOR A COMPLEX HELICAL SWS COMBINING RESULTS FOR SIMPLER CONFIGURATIONS | |
| PHOTOLYTIC BEHAVIOUR OF P AND P(+) SILICON CRYSTAL IN HF | 468 | SODA LIME | |
| TEMPERATURE DEPENDENCE OF EFFECTIVE MASS OF ELECTRONS AND HOLES AND INTRINSIC CONCENTRATION IN SILICON | 662 | EFFECT OF ETCHING CONDITIONS ON TRACK REGISTRATION CHARACTERISTICS OF SODA LIME GLASS DETECTOR | |
| SILICON CARBIDE | | SODIUM | |
| ENTROPY CONTRIBUTIONS IN DETERMINING THE RELATIVE STABILITIES OF POLYTYPES | 577 | APPLICATION OF HAGEMARK'S THEORY TO MULTICOMPONENT SYSTEMS ZNTE ₁ Li, O AND HA- IMPLANTED CDS | |
| SILICON CRYSTALS | | ESTIMATION OF SODIUM CONTENT OF COTTON FOR USE IN NEUTRON ACTIVATION DOSIMETRY | |
| 90 DEGREE GROWTH TWINS IN FLOAT-ZONE SILICON CRYSTALS | 1005 | FERMI SURFACE DISTORTION IN SODIUM | |
| SILICON PLANAR TRANSISTORS | | PHOTOCONDUCTING PROPERTIES OF CDS/HA FILMS | |
| ANNEALING EFFECTS ON DC CURRENT GAIN (β) OF SILICON PLANAR TRANSISTORS | 377 | SODIUM BROMATE | |
| SILICON RUBBER | | MECHANOLUMINESCENCE SPECTRA OF SODIUM BROMATE AND SODIUM CHLORATE CRYSTALS | |
| DIELECTRIC LOSS FACTOR IN MAGNETICALLY POLARIZED SILICONE RUBBER TUBULAR ELECTRETS BY TSDC | 923 | SODIUM BROMIDE | |
| SILICONE RUBBER | | STUDY OF SURFACE DISTORTION AROUND DYNAMIC IMPACTS ON CLEAVAGES OF SODIUM BROMIDE SINGLE CRYSTALS | |
| ELECTRET PROPERTIES OF ELECTRICALLY CHARGED SILICONE RUBBER | 957 | SODIUM CHLORATE | |
| THERMAL CURRENTS IN MAGNETICALLY POLARIZED SILASTIC TUBULAR ELECTRETS | 20 | MECHANOLUMINESCENCE SPECTRA OF SODIUM BROMATE AND SODIUM CHLORATE CRYSTALS | |

KEYWORD INDEX

PAGE

PAGE

| | | |
|---|------|---|
| SODIUM CHLORIDE | | |
| COMPRESSION OF SODIUM CHLORIDE SINGLE CRYSTALS ALONG <001> DIRECTION | 953 | SPECTROSCOPIC CHARACTERISTICS CALCULATION OF SPECTROSCOPIC |
| DEBYE TEMPERATURE OF SOME SOLID SOLUTION SERIES WITH THE NaCl STRUCTURE | 903 | CHARACTERISTICS OF SOME ACETOPHENONES USING PARISER-PARR-POPLE SCF-CI APPROXIMATION |
| ON THE DEBYE CHARACTERISTIC TEMPERATURE OF SOME CRYSTALS WITH NaCl-TYPE STRUCTURE | 204 | SPIN ONE-SPIN CROSS-RELAXATION IN DILUTE NICKEL FLUOSILICATE |
| SOLAR CELLS | | SPIN-ORBIT PARAMETERS |
| I-V CHARACTERISTICS OF SEMICONDUCTOR-INSULATOR-SEMICONDUCTOR SOLAR CELLS | 532 | SLATER-CONDON AND SPIN-ORBIT PARAMETERS FOR TM ⁽³⁺⁾ IN THULIUM SULPHATE, THULIUM ETHYL SULPHATE AND ZINC SULPHIDE |
| SOLAR RADIATION | | SPUTTERED MOLYBDENUM FILMS |
| MEASUREMENT AND ANALYSIS OF SOLAR RADIATION AND ILLUMINATION FOR CLEAR SKY CONDITIONS | 413 | SPUTTERED MOLYBDENUM FILM RESISTORS |
| SOLID SOLUTIONS | | SQUARE WELL MOLECULES QUANTUM CORRECTIONS TO THERMODYNAMIC PROPERTIES OF A MIXTURE OF HARD SPHERE AND SQUARE WELL MOLECULES |
| DEBYE TEMPERATURE OF SOME SOLID SOLUTION SERIES WITH THE NaCl STRUCTURE | 903 | STAINLESS STEEL SPECTROCHEMICAL DETERMINATION OF EIGHT TRACE ELEMENTS IN STAINLESS STEEL |
| SOLID VOLUME, LIMITING | | STUDY OF BLISTERS FORMED DUE TO HELIUM ION BOMBARDMENT ON STAINLESS STEEL |
| ESTIMATION OF LIMITING SOLID VOLUME OF POLAR SUBSTANCES: AN ANALYTICAL METHOD | 915 | STANNIC OXIDE PARALLEL PLATE ELECTRON MULTIPLIER USING SnO ₂ -Al2O ₃ |
| SOLID-LIQUID INTERFACE | | STEEL STUDY OF BLISTERS FORMED DUE TO HELIUM ION BOMBARDMENT ON STAINLESS STEEL |
| STUDY OF SOLID-LIQUID INTERFACE OF BISMUTH-ANTIMONY ALLOY SINGLE CRYSTALS | 658 | STOPPING POWER OF ABSORBER CALCULATIONS OF CSDA RANGE AND PROJECTED RANGE OF MONOENERGETIC ELECTRONS |
| SOLIDS | | STRIATIONS LASER POWER FLUCTUATIONS DUE TO STRIATIONS IN A HE-NE LASER OPERATING AT 6328 ANGSTROMS |
| PLASMON EXCITATION IN SOLIDS DURING X-RAY SCATTERING | 727 | STRONTIUM SULPHIDE PHOTODIELECTRIC EFFECT IN SRS:Mn:Zr PHOSPHORS |
| SECOND MOMENT OF SOLID HIPPURIC ACID BY WIDE-LINE NMR | 731 | SUBSTITUENT GROUP EFFECTS SUBSTITUENT GROUP EFFECTS ON NQR FREQUENCY OF Br IN CERTAIN BROMOMETHANE DERIVATIVES |
| SOLITON | | SUBSTITUTIONAL SOLUTIONS THERMODYNAMICS OF MANGANESE-BEARING BINARY SUBSTITUTIONAL SOLUTIONS |
| REFLECTION AND TRANSMISSION OF ION ACOUSTIC SOLITON AT A PLASMA INTERFACE | 673 | SULPHUR AFTER-EFFECT OF HEAT AND MAGNETIC FIELD ON THE DIELECTRIC PERMITTIVITY OF SULPHUR |
| SOLUTE RELAXATION TIME | | SUPERCONDUCTIVITY SUPERCONDUCTIVITY IN CERTAIN METALS |
| PREDICTION OF DIPOLE MOMENTS OF POLAR MOLECULES FROM THE RELATION BETWEEN τ_{A} (SOLUTE) AND τ_{A} (SOLVENT) | 58 | SUPERFLUID HELIUM-4 PHONON-ROTON EXCITATION IN SUPERFLUID He-4 |
| SOLUTIONS | | SURFACE DISTORTION STUDY OF SURFACE DISTORTION AROUND DYNAMIC IMPACTS ON CLEAVAGES OF SODIUM BROMIDE SINGLE CRYSTALS |
| ACOUSTIC BEHAVIOUR OF ELECTROLYTIC SOLUTIONS IN ALCOHOLS | 632 | SURFACE TENSION SURFACE TENSION OF HARD SPHERE LIQUIDS WITH ATTRACTIVE INTERACTIONS AND ESTIMATION OF RAO'S ACOUSTICAL PARAMETER |
| APPLICATION OF A WALL-STABILIZED DC ARC FOR SPECTRAL ANALYSIS OF SOLUTIONS | 47 | SURFACE WAVE TRANSMISSION AXIAL CYLINDRICAL SURFACE WAVE TRANSMISSION ACROSS A BEND |
| SOLVENTS | | SYMMETRIC PHI-6 MODEL EFFECTIVE POTENTIAL FOR THE O(n) SYMMETRIC PHI-6 MODEL |
| DIELECTRIC RELAXATION STUDY OF INTERMOLECULAR ASSOCIATION THROUGH HYDROGEN BONDING OF P-HALOPHENOLS IN NON-POLAR SOLVENTS | 784 | SYMMETRY BREAKING EFFECTIVE POTENTIAL FOR THE O(n) SYMMETRIC PHI-6 MODEL |
| DIELECTRIC STUDIES ON CARBOXYLIC ACIDS: PART III--DIPOLAR THERMODYNAMIC EXCESS FUNCTIONS OF ACETIC, PROPIONIC AND BUTYRIC ACIDS IN NON-POLAR SOLVENTS | 890 | SYMMETRY GROUP ON THE SYMMETRY GROUP OF NON-RIGID MOLECULE BF ₂ CH ₃ |
| LIQUID STRUCTURE OF TERT-BUTYL ALCOHOL IN NONPOLAR SOLVENTS FROM DIELECTRIC STUDIES | 40 | SYNTHETIC QUARTZ MICROTOPOGRAPHICAL STUDIES OF SECOND ORDER PRISM FACES OF SYNTHETIC QUARTZ CRYSTALS |
| STABILITY OF INTRAMOLECULAR HYDROGEN BOND OF β -HYDROXY QUINOLINE IN DIFFERENT SOLVENTS: IR SPECTROSCOPIC STUDY | 1010 | 162 1075 |
| SPARKING POTENTIAL | | |
| SPARKING POTENTIALS IN LONGITUDINAL MAGNETIC FIELDS | 725 | |
| SPECTRAL ANALYSIS | | |
| APPLICATION OF A WALL-STABILIZED DC ARC FOR SPECTRAL ANALYSIS OF SOLUTIONS | 47 | |
| SPECTRAL LINES | | |
| ISOTOPE SHIFT IN UNCLASSIFIED AND SOME NEW LINES OF NEODYMIUM SPECTRA IN THE REGION 3930-6450 ANGSTROMS | 114 | |
| SPECTRAL LINES, SELF-ABSORPTION-FREE | | |
| SELF-ABSORPTION-FREE FeI SPECTRAL LINES FOR TEMPERATURE MEASUREMENT IN THE DC CARBON ARC | 528 | |
| SPECTROCHEMICAL DETERMINATION | | |
| SPECTROCHEMICAL DETERMINATION OF EIGHT TRACE ELEMENTS IN STAINLESS STEEL | 895 | |
| SPECTROSCOPIC ANALYSIS | | |
| A METHOD OF ABSOLUTE SPECTROSCOPIC ANALYSIS USING X-RAY FLUORESCENCE TECHNIQUE | 437 | |

| PAGE | PAGE | |
|--|---|-----|
| TANGENTIAL VIBRATIONS | BUTYRIC ACIDS IN NON-POLAR SOLVENTS | 890 |
| ACCURATE MEASUREMENT OF TANGENTIAL VIBRATIONS OF QUARTZ CRYSTALS | THERMODYNAMIC FUNCTIONS | |
| TANTALUM DISULPHIDE | CALCULATION OF THERMODYNAMIC FUNCTIONS AND FLUCTUATIONS IN THE GROUND-STATE PARTICLE | |
| ELECTRON MICROSCOPY OF TAS ₂ SINGLE CRYSTALS USING WEAK BEAM TECHNIQUE | NUMBER FOR INTERACTING BOSONS | 760 |
| TELLURIUM | CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF C ₃ H ₆ , C ₃ D ₆ AND C ₃ F ₆ | 626 |
| ELECTRICAL CONDUCTIVITY AND DIELECTRIC CONSTANT OF SEMICONDUCTING GLASSES: AS-GE- TE AND SE-GE-TE ALLOY SYSTEMS | MOLECULAR CONSTANTS OF ACETYLENES: PART II-- CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF SILYLACETYLENE | 134 |
| TELLURIUM-ZINC COMPOUNDS | MOLECULAR CONSTANTS OF ACETYLENES: PART-I | |
| APPLICATION OF HAGEMARK'S THEORY TO MULTICOMPONENT SYSTEMS ZNTE: Li, O AND NA- IMPLANTED CDS | CENTRIFUGAL DISTORTION CONSTANTS AND THERMODYNAMIC FUNCTIONS OF GEH ₃ CCH AND GED ₃ CCH | 625 |
| TERBIUM ACTIVATOR | THERMODYNAMIC PROPERTIES | |
| ISOHERMAL DECAY OF CaO:Eu:TB PHOSPHORS | EXCESS THERMODYNAMIC PROPERTIES AND INTERACTIONS IN BENZENE + TETRAHYDROFURAN AND METHYL ETHYL KETONE + BUTANOL SOLUTIONS | 51 |
| TERNARY ALLOYS | MOLECULAR INTERACTION AND THERMODYNAMIC PROPERTIES OF TERNARY LIQUID MIXTURES | |
| COMPUTER SIMULATION OF TERNARY MISCIBILITY GAP IN THE TERNARY ALLOY PD(77.5)Cu(6)Si(16.5) | QUANTUM CORRECTIONS TO THERMODYNAMIC PROPERTIES OF A MIXTURE OF HARD SPHERE AND SQUARE WELL MOLECULES' | 254 |
| TERNARY LIQUID MIXTURES | THERMODYNAMICS | |
| MOLECULAR INTERACTION AND THERMODYNAMIC PROPERTIES OF TERNARY LIQUID MIXTURES | THERMODYNAMICS OF MANGANESE-BEARING BINARY SUBSTITUTIONAL SOLUTIONS | 868 |
| TETRABROMIDES | THERMOELECTRIC EFFECT | |
| INTRAMOLECULAR FORCE FIELDS AND MEAN AMPLITUDES OF VIBRATION OF GROUP IV TETRABROMIDES | THERMOELECTRIC EFFECT IN Fe-Ni FILMS | 494 |
| TETRAHALIDES | THERMOELECTRIC POWER | |
| FLEXIBILITY OF M-X BOND OF SOME TETRAHALIDES OF FOURTH GROUP METALS BY COMPLIANCE SCHEME | ELECTRICAL CONDUCTIVITY AND THERMOELECTRIC POWER IN AS ₂ S ₃ GLASSES | 709 |
| TETRAHEDRAL SYSTEMS | THERMOLUMINESCENCE | |
| MOLECULAR CONSTANTS AND VIBRATIONAL AMPLITUDES OF SOME TETRAHEDRAL SYSTEMS | X-RAY INDUCED THERMOLUMINESCENCE IN CaSO ₄ :SM PHOSPHORS | 568 |
| TETRAHYDROFURAN | THIN FILMS | |
| EXCESS THERMODYNAMIC PROPERTIES AND INTERACTIONS IN BENZENE + TETRAHYDROFURAN AND METHYL ETHYL KETONE + BUTANOL SOLUTIONS | BREAKDOWN OF RBCL FILMS DUE TO APPLICATION OF ELECTRIC VOLTAGE PULSES | 54 |
| THALLIUM ACTIVATOR | EFFECT OF IN SITU ANNEALING ON ELECTRICAL PROPERTIES OF MnBi FILMS | |
| CENTRES ASSOCIATED WITH 480 K THERMAL GLOW PEAK IN KBr:TL | ELECTRICAL PROPERTIES OF Bi ₂ O ₃ LAYERS UNDER REDUCED PRESSURE | 722 |
| THALLOUS HALIDES | ELECTRICAL PROPERTIES OF VACUUM-EVAPORATED PBS-PBO FILMS | |
| EVALUATION OF VAN DER WAALS COEFFICIENTS IN SILVER AND THALLOUS HALIDES | FIELD-DEPENDENT ELECTRICAL CONDUCTIVITY OF INDIUM OXIDE FILMS | 51 |
| Thermal Conductivity | IN SITU RESISTIVITY MEASUREMENTS ON THIN SILVER FILMS | |
| PREDICTION OF EFFECTIVE THERMAL CONDUCTIVITY OF TWO-PHASE POROUS MATERIALS USING RESISTOR MODEL | LATTICE DISTORTION SPECTRUM OF EVAPORATED BISMUTH FILMS | 549 |
| Thermal Conductivities of binary gas mixtures | PHOTOCONDUCTING PROPERTIES OF CDS:Na FILMS | |
| Thermal Currents | RESISTIVITY OF THIN BISMUTH FILMS | |
| Thermal currents in magnetically polarized silastic tubular electrets | SPUTTERED MOLYBDENUM FILM RESISTORS | 984 |
| Thermal Diffusion Factor | STRUCTURE AND GROWTH OF MNSE AND MNTE FILMS | |
| ESTIMATION OF THERMAL DIFFUSION FACTOR OF N ₂ -CO ₂ GAS MIXTURE FROM THERMAL DIFFUSION COLUMN DATA | THERMOELECTRIC EFFECT IN Fe-Ni FILMS | 815 |
| Thermal Expansion | VARIATION OF ELECTRICAL CONDUCTIVITY OF FERRIC HYDROXIDE FILMS WITH TEMPERATURE | |
| Thermal expansion of the ceramic system Pb(2-x)Ba(x)Li(0.5)Nb(1.5)O ₆ | THIOUREA | 20 |
| Thermal expansion of V ₃ Si at elevated temperatures | EPR STUDIES ON N,N'-ETHYLENEBIS (SALICYLALDIMINATO) COPPER(II)-THIOUREA | |
| Thermally stimulated discharge currents | AND N,N'-O-PHENYLENEBIS (SALICYLALDIMINATO) COPPER(II)-THIOUREA | 816 |
| DIELECTRIC LOSS FACTOR IN MAGNETICALLY POLARIZED SILICONE RUBBER TUBULAR ELECTRETS BY TSDC | THOMPSON AND LAMPARD THEOREM | |
| Thermo-electrets | DEVELOPMENT OF A HORIZONTAL MODEL OF CALCULABLE CROSS-CAPACITOR | 56 |
| ANALYSIS OF THE DIAMAGNETIC ANISOTROPY OF THERMO- AND MAGNETO-ELECTRET STATES | THULIUM ETHYL SULPHATE | |
| Thermocouples | SLATER-CONDON AND SPIN-ORBIT PARAMETERS FOR TM ⁽³⁺⁾ IN THULIUM SULPHATE, THULIUM ETHYL SULPHATE AND ZINC SULPHIDE | 923 |
| Thermoelectric effect in Fe-Ni films | THULIUM SULPHATE | |
| Thermodynamic excess functions | SLATER-CONDON AND SPIN-ORBIT PARAMETERS FOR TM ⁽³⁺⁾ IN THULIUM SULPHATE, THULIUM ETHYL SULPHATE AND ZINC SULPHIDE | 611 |
| Dielectric studies on carboxylic acids: part III--dipolar thermodynamic excess functions of acetic, propionic and | TIME DOMAIN | |
| | STABILITY MEASUREMENTS IN TIME DOMAIN USING DUAL MIXER TIME DIFFERENCE SYSTEM | 709 |
| | 1015 | |
| | 1015 | |
| | 220 | |

KEYWORD INDEX

PAGE

PAGE

| | | |
|---|------|--|
| TOLMAN'S SOLUTIONS | | |
| MASSIVE SPHERES: SOME GENERAL CONSIDERATIONS AND APPLICATIONS | 171 | ULTRAVIOLET IRRADIATION |
| TOLUIDINE, P- | | DIELECTRIC TRANSIENT RESPONSE OF SOME BIOMOLECULES FOLLOWING ULTRAVIOLET RADIATION |
| VISCOSITY BEHAVIOUR OF DIPHENYLAMINE-P- TOLUIDINE SYSTEM | 913 | UNCERTAINTIES |
| TRACE ELEMENTS | | NUCLEAR-DECAY DATA--THE STATEMENT OF UNCERTAINTIES |
| SPECTROCHEMICAL DETERMINATION OF EIGHT TRACE ELEMENTS IN STAINLESS STEEL | 895 | URANYL COMPLEXES |
| TRACER TECHNIQUE | | SPECTRAL STUDIES OF SOME URANYL COMPLEXES |
| MEASUREMENTS OF SELF-DIFFUSION COEFFICIENTS IN HG AND GA BY A RADIOACTIVE TRACER TECHNIQUE | 87 | UREY-BRADLEY FORCE FIELD |
| TRACK ETCH RATE | | INTERPRETATION OF THE SPECTRA OF SUBSTITUTED BORAZINES BY UREY-BRADLEY FORCE FIELD |
| EFFECT OF ETCHING CONDITIONS ON TRACK REGISTRATION CHARACTERISTICS OF SODA LIME GLASS DETECTOR | 107 | VANADYL ACETYL ACETONATE PROBE |
| TRACKING LOOP | | EPR STUDY OF MOLECULAR ORDER IN P-N- OCTYLOXY BENZYLIDENE-P-TOLUIDINE USING VAAC PROBE |
| FORMANT STRUCTURE OF BENGALI VOWELS AND SOME POSSIBLE USES OF A TRACKING LOOP | 692 | VARACTOR DIODE |
| FORMANT EXTRACTION SYSTEM | | DEPENDENCE OF THE C-V INDEX OF A HYPERABRUPT JUNCTION ON JUNCTION PARAMETERS |
| TRANSISTORS | | VELOCITY DISTRIBUTION |
| ANNEALING EFFECTS ON DC CURRENT GAIN (BETA) OF SILICON PLANAR TRANSISTORS | 377 | EFFECT OF POLARIZED VELOCITY DISTRIBUTION OF ELECTRONS ON DOUBLE IONIZATION OF HE BY PROTON IMPACT |
| CALCULATION OF CURRENT GAIN OF PLANAR TRANSISTORS | 10 | VIBRATION |
| EFFECT OF MAGNETIC FIELD ON THE CURRENT GAIN OF JUNCTION TRANSISTORS | 455 | INTRAMOLECULAR FORCE FIELDS AND MEAN AMPLITUDES OF VIBRATION OF GROUP IV TETRABROMIDES |
| TRANSITION METAL OXIDES | | VIBRATION FREQUENCY |
| CRYSTAL GROWTH OF TRANSITION METAL OXIDES FROM POTASSIUM PYROSULPHATE FLUX | 304 | RELATION BETWEEN MICROHARDNESS AND ATOMIC VIBRATION FREQUENCY IN ALKALI HALIDES |
| TRANSITION-METALS | | VIBRATION-ROTATION INTERACTION |
| CRYSTAL FIELD STABILIZATION ENERGIES OF SECOND-ROW TRANSITION-METAL OXIDES AND HALIDES | 360 | INFLUENCE OF VIBRATION ROTATION INTERACTION ON FRANCK-CONDON FACTORS |
| TRANSMISSION, SOLITON | | VIBRATIONAL AMPLITUDES |
| REFLECTION AND TRANSMISSION OF ION ACOUSTIC SOLITON AT A PLASMA INTERFACE | 673 | FORCE FIELD AND VIBRATIONAL AMPLITUDES OF ALKALI METAL HALIDE DIMERS USING ELECTRON GAS MODEL DATA |
| TRANSPORT PROPERTIES | | MOLECULAR CONSTANTS AND VIBRATIONAL AMPLITUDES OF SOME TETRAHEDRAL SYSTEMS |
| TRANSPORT PROPERTIES OF MONOCLINIC RARE- EARTH SESQUIOXIDES | 150 | VIBRATIONAL ANALYSIS |
| TRANSPORT PROPERTIES OF NEON, KRYPTON AND XENON ACCORDING TO L-J (12-6) POTENTIAL | 459 | INTERPRETATION OF THE SPECTRA OF SUBSTITUTED BORAZINES BY UREY-BRADLEY FORCE FIELD |
| TRAPPING CENTRES | | VIBRATIONAL ANALYSIS OF MONOMERIC TRIHALIDES OF GALLIUM AND INDIUM |
| CHARACTERIZATION OF DEEP TRAPPING CENTRES IN N-TYPE LIQUID PHASE EPITAXIAL GAAS BY HALL EFFECT | 483 | VIBRATIONAL ASSIGNMENTS |
| TRAVELLING WAVE TUBES | | STRUCTURE AND VIBRATIONAL SPECTRA OF ETHYLTHIONFORMATE |
| FIELD ANALYSIS OF A PRACTICAL HELICAL SLOW- WAVE STRUCTURE FOR TWTS | 64 | VIBRATIONAL ASSIGNMENTS OF 2,3-, 2,5-, 2,6- , AND 3,5-DICHLOROANILINES |
| TRICHLOROANILINES | | VIBRATIONAL SPECTRA OF BIOLOGICAL MOLECULES: 2,4-DIAMINO-6-HYDROXY PYRIMIDINE |
| INFRARED ABSORPTION SPECTRA OF 2,3,4-; 2,4, 5- AND 2,4,6-TRICHLOROANILINE | 299 | VIBRATIONAL SPECTRA OF P-METHOXY BENZONITRILE |
| TRIGGER PULSE LOGIC | | VIBRATIONAL SPECTRUM OF 2,6- DICHLOROBENZAMIDE |
| AUTOMATIC TRIGGER PULSE LOGIC FOR THE PULSE PROGRAMMER FOR USE IN PULSED NMR | 145 | VIBRATIONS |
| TRIPHENYLAMINE | | ACCURATE MEASUREMENT OF TANGENTIAL VIBRATIONS OF QUARTZ CRYSTALS |
| PIEZOELECTRIC MECHANOLUMINESCENCE AND PHOTOLUMINESCENCE OF TRIPHENYLAMINE CRYSTALS | 743 | VICKERS HARDNESS |
| TRIVANADIUM PENTOXIDE | | VARIATION OF HARDNESS WITH LOAD FOR QUENCHED KBR SINGLE CRYSTALS |
| HIGH TEMPERATURE PHASE TRANSITION IN V305 | 71 | VISCOSITY |
| TRIVANADIUM SILICON | | FREQUENCY MOMENTS AND VISCOSITIES OF LIQUID RUBIDIUM |
| THERMAL EXPANSION OF V3SI AT ELEVATED TEMPERATURES | 56 | PREDICTION OF DIPOLE MOMENTS OF POLAR MOLECULES FROM THE RELATION BETWEEN TAU(SOLUTE) AND ETA(SOLVENT) |
| TWIN <90 DEGREE> GROWTH | | RELAXATION TIME AND ACTIVATION ENERGY FOR VISCOSITY FROM RADIOFREQUENCY CONDUCTIVITY MEASUREMENTS |
| 90 DEGREE GROWTH TWINS IN FLOAT-ZONE SILICON CRYSTALS | 1005 | VISCOSITY BEHAVIOUR OF DIPHENYLAMINE-P- TOLUIDINE SYSTEM |
| ULTRAVIOLET ABSORPTION SPECTRA PI*-PI SYSTEMS IN THE QUARTZ ULTRAVIOLET ELECTRONIC ABSORPTION SPECTRA OF SOME DI- AND TRISUBSTITUTED ACETOPHENONES | 332 | 1077 |

| PAGE | PAGE | | |
|--|------|--|------|
| VOLTAGE PULSES BREAKDOWN OF RBCL FILMS DUE TO APPLICATION OF ELECTRIC VOLTAGE PULSES | 231 | SPECTROSCOPY WORK X-RAY STUDY | 798 |
| VOLTAGE(HIGH) MEASUREMENT ELECTRICAL CHARACTERISTICS OF 50 K V RESISTANCE POTENTIAL DIVIDER | 687 | PRELIMINARY SINGLE CRYSTAL X-RAY STUDY OF N-METHYL CROTANANINIUM IODIDE | 62 |
| | | PRELIMINARY X-RAY STUDY OF PYRENE PICRATE | 702 |
| WALL-STABILIZED ARC APPLICATION OF A WALL-STABILIZED DC ARC FOR SPECTRAL ANALYSIS OF SOLUTIONS | 47 | X-RAYS X-RAY INDUCED THERMOLUMINESCENCE IN CaSO ₄ :Sm PHOSPHORS | 562 |
| WAVEFUNCTIONS ESTIMATION OF GROUND STATE WAVEFUNCTIONS AND ESR PARAMETERS OF Cu(2+) ION | 541 | XENON TRANSPORT PROPERTIES OF NEON, KRYPTON AND XENON ACCORDING TO L-J (12-6) POTENTIAL | 459 |
| WEAK BEAM TECHNIQUE ELECTRON MICROSCOPY OF TAs ₂ SINGLE CRYSTALS USING WEAK BEAM TECHNIQUE | 899 | XY ₃ MOLECULES BOND POLARIZABILITY DERIVATIVES AND FORCE CONSTANTS OF SOME XY ₃ PYRAMIDAL TYPE MOLECULES AND IONS | 302 |
| X-RAY ABSORPTION SPECTRA MOLECULAR ORBITAL ENERGIES AND X-RAY K- ABSORPTION SPECTRA OF COPPER IN METAL AND ITS OXIDES | 258 | XY ₄ MOLECULES FORCE CONSTANTS OF SOME XY ₄ MOLECULES BY MODIFIED REDINGTON AND ALJIBURY METHOD | 305 |
| X-RAY DIFFRACTION LOW ANGLE X-RAY DIFFRACTION STUDY OF LIQUID CRYSTAL: CHOLESTERYL METHYL CARBONATE | 127 | YTTRIUM-IRON-GARNET MAGNETIC PROPERTIES OF SI-DOPED YIG SINGLE CRYSTALS | 639 |
| X-RAY DIFFRACTION AND FLUORESCENCE SPECTRAL STUDIES ON (CAS,BAS): CU PHOSPHORS | 6 | ZINC DISLOCATION VELOCITIES IN ZINC SINGLE CRYSTALS | 236 |
| X-RAY DIFFUSE SCATTERING ELASTIC CONSTANTS OF PHLOROGLUCINAL DIHYDRATE BY X-RAY DIFFUSE SCATTERING | 1012 | ZINC OXIDE LUMINESCENCE OF ZNO PHOSPHOR IN GREEN AND RED REGIONS | 292 |
| X-RAY FLUORESCENCE ANALYSIS A METHOD OF ABSOLUTE SPECTROSCOPIC ANALYSIS USING X-RAY FLUORESCENCE TECHNIQUE | 437 | ZINC SULPHIDE ENTROPY CONTRIBUTIONS IN DETERMINING THE RELATIVE STABILITIES OF POLYTYPES | 577 |
| X-RAY K-ABSORPTION DISCONTINUITY X-RAY K-ABSORPTION DISCONTINUITY IN CRYSTALLINE AND AMORPHOUS ARSENIC | 1029 | SLATER-CONDON AND SPIN-ORBIT PARAMETERS FOR TM(3+) IN THULIUM SULPHATE, THULIUM ETHYL SULPHATE AND ZINC SULPHIDE | 1015 |
| X-RAY SCATTERING PLASMON EXCITATION IN SOLIDS DURING X-RAY SCATTERING | 727 | ZINC-TELLURIUM COMPOUNDS APPLICATION OF HAGEMARK'S THEORY TO MULTICOMPONENT SYSTEMS ZNTE: Li, O AND Na- IMPLANTED CDS | 363 |
| X-RAY SPECTROSCOPY A COUNT RATE INTEGRATOR FOR USE WITH X-RAY | | ZIRCONIUM ACTIVATOR PHOTODIELECTRIC EFFECT IN SRS:MN:Zr PHOSPHORS | 707 |

Errata

Paper entitled, "Structure & Vibrational Spectra of Ethylthionformate", Vol. 18, (No. 11) (November) 1980, p. 927, Fig. 2.

The parameter along the ordinate should be 'Scattered radiation'.

Paper entitled, "An Empirical Generalized Relation on Decay of CaS Phosphors", Vol. 18 (Dec) (1980), pp. 940-944.

| Page | Position | As printed in journal | To be corrected as |
|------|-------------------------------------|---|--|
| 940 | Abstract 2nd line | $I = I_0 \exp \{ \alpha - (t/t_b)^{1/4} \}$ | $I = I_0 \exp \{ -\alpha (t/t_b)^{1/4} \}$ |
| 940 | Abstract 3rd line | $\{(dN_{r-1}/dt) (dN_r/dt)\}$ | $(dN_{r-1}/dt)/(dN_r/dt)\}$ |
| 942 | Fig. 4 Parameter along x-axis | t in sec | $(t$ in sec) $^{1/4}$ |
| 942 | Year of last Ref. in Table 1 | 1979 | 1978 |
| 943 | Line above Eq. (12) | same | some |
| 943 | 2nd line below Eq. (19) | $\phi = (-\alpha^{1/8}/t_b)$ | $\phi = (\alpha^{1/8}/t_b)$ |

Paper entitled, "Calculation of Physical Properties of Simple Classical Fluids : Methane & Benzene", Vol. 19 (Mar) (1981), pp 227-231.

| Page | Position | As printed in journal | To be corrected as |
|------|--------------------------------------|--|--------------------------------------|
| 228 | L. H. Column line 6 below Eq. (4) | isothermal expansion coefficient | thermal expansion coefficient |
| 228 | L. H. Column Title to Eq. (5) | <i>Isenthalpic expansion coefficient</i> | <i>Thermal expansion coefficient</i> |

